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The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3169
VOL. CXXXIII

NOVEMBER 2, 1940

Annual Subscription (with
Diary) 25/- Single Copies 9d.

STILL THE PUBLIC CHOICE

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Cut-out
will be sent
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L O N D O N · E · 2

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For your throat

Allenburys
PASTILLES



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ALLEN & HANBURY'S LTD. LONDON.



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Send for
Bonus Terms

Because of the security it confers in respect of protected price and assured profit, Euthymol is a sound line from which you can secure good and profitable business. It has been on the P.A.T.A. for over 30 years and has no sixpenny size.

PARKE, DAVIS & CO., 50 BEAK ST., LONDON, W.1

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It's advertised as a Chemist's Line



ONE SHILLING AND THREEPENCE PROFIT ON EVERY SALE

'ELASTO' Advertising is Nation-wide and Consistent. An ever-increasing demand for this product is being created at your very door; a slight effort on your part will bring this new and profitable business to your counter. A showcard or a few 'Elasto' cartons displayed in your window will bring most gratifying results. You can recommend 'Elasto' with confidence for: Varicose Veins, Bad Leg, Phlebitis, Piles, Hardened Arteries, Heart Troubles, Rheumatism, Bad Circulation, etc. A tablet Remedy, easy to handle and reliable.



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PRICE REDUCTION

MEDICO-BIOLOGICAL LABORATORIES, LTD., beg to inform their chemist friends that, in order to offset to the consumer the full amount of the Purchase Tax, they have REDUCED the prices of certain lines.

For reference purposes they append a modified Price List, indicating the amount of tax payable, and would appreciate the acceptance of this public notice in lieu of the usual direct advices.

(Please cut this out and retain for reference)

	Retail Price	Purchase Tax	TRADE PRICE		
			Per Unit	Per Doz.	Tax Per Doz.
ANTIPEOL			(Tax Extra)		
OINTMENT					
4 oz. Tube	6/-	8½	4/2½	50/5	8/5
40 gr. „	3/-	4½	2/1½	25/3	4/3
20 gr. „	1/8	2½	1/2	14/-	2/4
LIQUID					
40 c.c. Bottle	3/-	4½	2/1½	25/3	4/3
OPHTHALMO-ANTIPEOL					
20 gr. Nozzled Tube	3/-	4½	2/1½	25/3	4/3
8 gr. „	1/5	2	1/-	11/11	2/-
RHINO-ANTIPEOL					
20 gr. Nozzled Tube	2/6	3½	1/9	21/-	3/6
8 gr. „	1/5	2	1/-	11/11	2/-
ENTEROFAGOS ORAL AND INJECTABLE					
Box of 50 ampoules	19/-	2/2½	13/3½	159/7	26/7
„ „ 10 „	4/3	6	3/-	35/8	6/-
„ „ 5 „	2/6	3½	1/9	21/-	3/6
DETENSYL					
Tin of 500 Tablets	40/-	None	28/-	336/-	Exempt
Tube of 50 „	4/6	None	3/2	37/9	Exempt
ST. JAMES' BALM					
Tins of approx. 2½ oz.	2/6	4	1/11	22/6	3/9
„ „ „ 1 oz.	1/3	2	11	11/3	1/11
Tubes	1/-	2	9	9/-	1/6

From all Wholesalers and

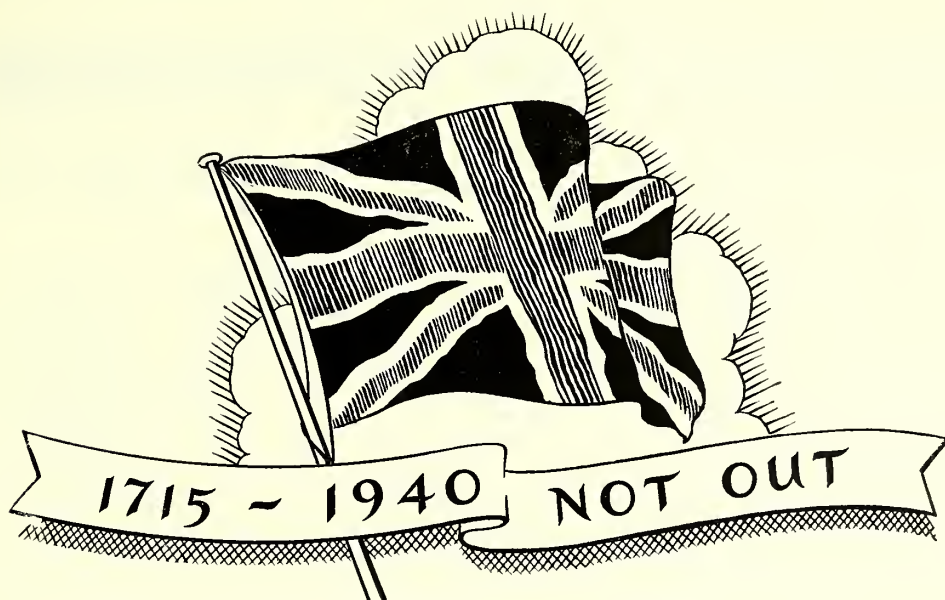
MEDICO-BIOLOGICAL LABORATORIES LTD.

Telegrams:
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CARGREEN ROAD

Telephone:
LIVINGSTONE 3628

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- ALLENBURYS MALTED MILK
- ALLENBURYS PASTILLES . .
- ALLENBURYS ORANGE JUICE
- LIXEN
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- BYNIN AMARA
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Our extensive pharmaceutical manufacturing plant at Ware and our surgical manufacturing plant are in full production.

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LONDON, E.2



THERE IS NO SHORTAGE

and there will be

no shortage of—



and . . .

LACTOBYL

These preparations have been made in this country for the last five years. The formulae remain the same. Ample supplies are available for Home and Export consumption

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USUAL
WHOLESALE
CAN
SUPPLY**

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Telegrams : "TAXOLABS, PHONE, LONDON"

Telephone : SHEP. BUSH 3431—2

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RENDELLS PRODUCTS FOR FEMININE HYGIENE

New retail prices as arranged with the P.A.T.A.

SANTRON 4 oz. size . . . 1/3d.

„ 16 oz. size . . . 3/-

MENSINOLE . . . 1/4½d.

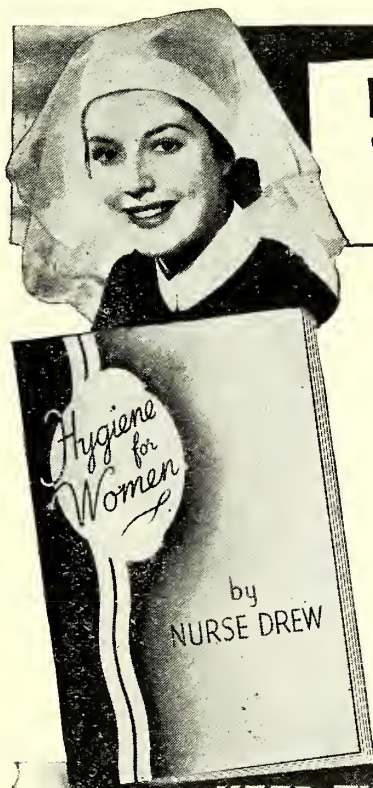
RENDELLS PESSARIES and SILATEX are exempt from the Tax and present retail prices are maintained.

W. J. RENDELL LTD., 161-165 Rosebery Avenue, London, E.C.1

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FOR FEMININE HYGIENE

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REMEMBER that

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Carbolic Disinfecting Fluids containing 3% to 80% Tar Acids.

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Tar Acids and Rideal Walker Co-efficiency guaranteed.

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Carbolic Disinfecting Fluids, Rideal Walker Co-efficients 2 to 20
Liquid Carbolic and Cresylic Acid, Dark 95/97% and Pale 97/99%.

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Liquid Soaps.

SOLUBLE Carbolic or Pine Blocks for road watering vans
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An Investment paying the highest dividend is what you look for in business.

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SPECIALISTS IN LABELS printed to order
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**OUR SUTTLOCK
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conforms with all the
requirements of the
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**A Modern Series of Stock
Labels in various colour
schemes for Packed
Lined Goods.
Write for List of
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SLOANS BRAND LINIMENT

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SLOANS BRAND LINIMENT	List Price doz. at per doz.	6 doz. at per doz.	12 doz. at per doz.
2/- size Inclusive of Tax	17/- Plus 2/10 Tax	16/3 Plus 2/10 Tax	15/9 Plus 2/10 Tax

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2/- size Inclusive of Tax	16/- Plus 2/8 Tax	15/3 Plus 2/8 Tax	14/9 Plus 2/8 Tax
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Invoices are strictly nett and are due for payment on the last day of the month following invoice date.

CONDITIONS OF SALE

The minimum retail prices shown herein must be adhered to. Goods are NOT supplied on sale or return, nor on Sale or Exchange. Acceptance of goods and invoice implies acceptance of above conditions.

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Carriage paid only on minimum quantity of six dozen.

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Goods are packed with care and are double checked, and no claim can be established unless made within five days from receipt of goods.

ATTRACTIVE DISPLAY MATERIAL AVAILABLE ON REQUEST

WILLIAM R. WARNER & CO. LTD. • POWER ROAD • CHISWICK • LONDON W.4.

Mobile warmth and comfort



EDINA (Moulded)

The extension on the filler acts as a handle when filling, or when buttoned over, as a protection to the feet. In Blue, Green or Red.



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A high - grade fabric bottle for really hard wear in Drab or Red

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A strong moulded bottle obtainable in Blue, Green or Red.

Your customers must carry their warmth this Winter.
NORTH BRITISH Hot Water Bottles are the easiest, surest
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Not only British — but NORTH BRITISH

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THREE WORDS TO THE CHEMIST.....

DO IT NOW!!

IF YOU WANT TO ENSURE YOUR SUPPLIES OF

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Owing to prevailing conditions it is most essential that registration for malt and oil should be made immediately if you are to be sure of your supplies this winter. Please write at once for samples, prices, range of labels, etc., and make sure of YOUR full share if Malt and Oil is rationed.

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Make sure of a complaint-free winter by selling

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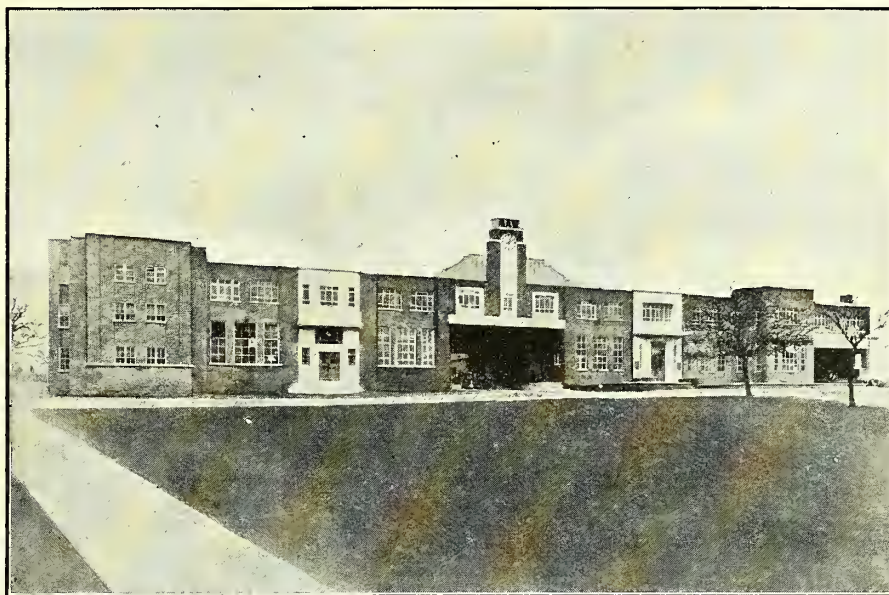
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ELASTIC HOSIERY

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Permit us to quote you

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CLINICAL REGD.
The position of the Mercury column is at once perfectly plain. Red markings above 99.4.

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AND OTHER
THERMOMETERS**

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COTTON WADDINGS

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ABDOMINAL BINDERS**

BACKING for ADHESIVE PLASTERS

A super bandage unsurpassed for quality and elasticity at prices showing greater profits than any other make. Obtainable from your usual Wholesaler.

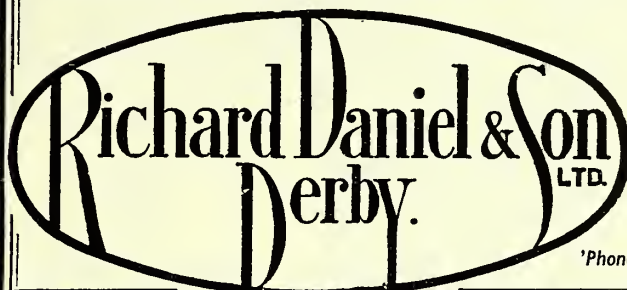
All cloth woven and finished in our works



Our policy is quality

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IODISED THROAT TABLETS
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A QUICK-SELLING LINE. AVAIL YOURSELF OF THIS OPPORTUNITY FOR BIGGER AND QUICKER PROFITS.

Apply to Optrex Ltd., Wadsworth Road, Perivale, Middlesex.

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CAPSULE MAKERS TO THE TRADE . . .

Many years of specialised experience are at your disposal. Superlative products at keenly competitive prices. Ask us to quote for your next requirements. Own or standard formulæ compounded.

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Prescribed by the
Medical Profession

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VERMIN

KILLER

IN PACKETS
5d., 9d., 1/3, 2/6, 5/-
P.A.T.A.

WHOLESALE AT
3/-, 5/6, 9/-, 18/-, 36/-
per doz.

BATTLE'S

LIQUID

RAT

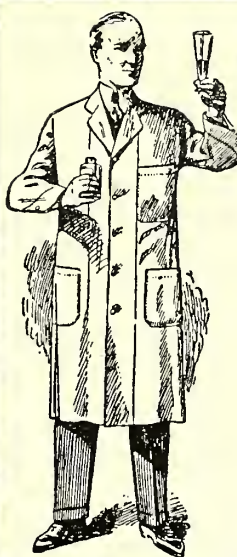
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12/-, 22/-, 45/-
per doz.

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Order some today from your wholesaler

GARDINERS for OVERALLS



HIGH GRADE OVERALLS

LONG COATS

White, Khaki or Grey 10/6
Super Quality, specially shrunk 12/6, 14/6

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White, Khaki or Grey, hard wearing
SPECIAL OFFER 8/11

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Super White Drill 5/11

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A large selection at all prices
All prices subject to alteration without notice.

We hold a large and varied stock of every kind of protective clothing. Special attention to Post Orders. Cash refunded if not approved. Postage paid on orders over £1.

Write or phone B1Shopsgate 6751 for illustrated Price List

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1, 3 & 5 COMMERCIAL ROAD, LONDON, E.1

OPPOSITE THE NEW ALDGATE EAST STATION

EX-LAX

BRAND

*New Retail
Prices*

★

~~2^D~~ - 2^{1D}/₂

~~6^D~~ - 7^D

~~13~~ - 1⁵/₅

(P.A.T.A.—Including Purchase Tax)

**BUT—TRADE TERMS
AS USUAL**

1/6	} PER DOZEN (plus Purchase Tax at 16 ² / ₃ %)
4/6	
11/3	

BONUS TERMS AS USUAL

(Through your Wholesaler)

On a 13/6 Parcel (excluding tax)
1/4 doz. 7^D size **FREE** ★

On a 27/- Parcel (excluding tax)
1 doz. 7^D size **FREE** ★

On a 54/- Parcel (excluding tax)
2¹/₂ doz. 7^D size **FREE** ★

★ Purchase Tax payable on these bonuses
will be added on the Invoice

EX-LAX Brand  Chocolate Laxative

EX-LAX LTD · SLOUGH · BUCKS

PLEASE CUT THIS OUT FOR REFERENCE

NOTICE

‘VASELINE’
BRAND

Petroleum Jelly

PURCHASE TAX

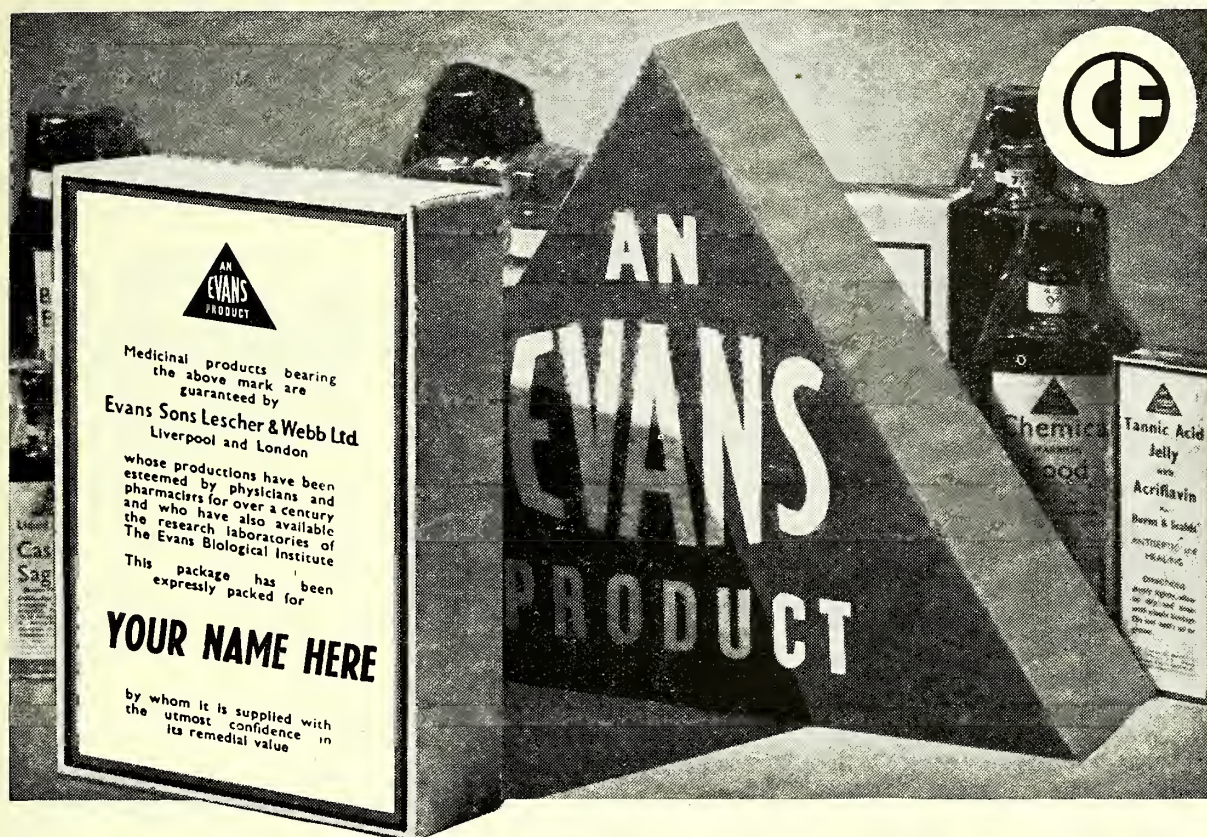
With reference to Notice No. 78, issued by H.M. Customs and Excise, and the use of the word “Vaseline” under the heading of Toilet Preparations in connection with articles specially prepared or put up for toilet use, this word is our registered trade mark and was incorrectly used and H.M. Customs and Excise have intimated that they are making the necessary corrections in their next printing.

To save any misunderstanding, we desire to point out that our Vaseline brand petroleum jellies, whether plain, carbolated, or compounded with other ingredients, are medicinal products and will bear tax at the rate of 16²/₃ per cent.

On the other hand, the following articles are specially prepared and put up for sale for toilet use and will bear tax at the rate of 33¹/₃ per cent.

**Vaseline brand Hair Tonic
Vaseline brand Soapless Shampoo
Vaseline brand Pomade
Vaseline brand Camphor Ice**

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VICTORIA ROAD, LONDON, N.W.10



YOUR lines—backed by the goodwill of the EVANS mark

Here is a range of some 80 selected pharmaceuticals covering virtually all your customers' everyday requirements. They are attractively packed under your own name to be sold as *your* lines.

Every one of these fine products is prepared specially in the Evans laboratories. They carry a reputation symbolised by the Evans mark — accepted by chemists, doctors and hospitals in every part of the world. Together they provide a complete range, every item of which appears in the

"CHEMISTS' FRIENDS" list. Every one of these products can be depended upon completely to consolidate and extend your established goodwill and to support your own recommendation.

While strengthening your goodwill this range of packed pharmaceutical goods carrying your name will push up your sales to a new peak — and profitably. Every item in the list is available to you at a price which allows you a substantial margin of profit. Write now for full particulars and terms.

EVANS

PACKED PHARMACEUTICALS

EVANS SONS LESCHER & WEBB LTD., LIVERPOOL & LONDON

AMAMI AND Pompeian PREPARATIONS

With the introduction of the Purchase Tax, it is necessary to revise our retail selling and cost prices. This adjustment provides for the same cash profit per dozen as before.

AMAMI PREPARATIONS

RETAIL PRICES			COST PRICE Per Dozen on "SMALLS"	COST PRICE Per Doz. on Mini- mum Quantity 27s. Parcel
Old Price	New Price			
3d.	4d.	SHAMPOOS	2/5d.	2/2-1d.
6d.	7½d.	LIQUID SOAPLESS SHAMPOO	4/6d.	4/0-6d.
6d.	7½d.	WAVE SET—Green and Spirituous	4/6d.	4/0-6d.
6d.	7½d.	NAIL VARNISH	4/1d.	3/8-1d.
6d.	7½d.	NAIL VARNISH REMOVER	4/1d.	3/8-1d.
6d.	7½d.	NAIL POLISHING STONES	4/1d.	3/8-1d.
6d.	7½d.	HAND JELLY	4/1d.	3/8-1d.
6d.	7½d.	BRILLIANTINE	4/1d.	3/8-1d.
1/3d.	1/6d.	WAVE SET—Green and Spirituous	10/0d.	9/0d.

POMPEIAN PREPARATIONS

6d.	7½d.	FACE POWDER	4/1d.	3/8-1d.
1/0d.	1/3d.	"	8/2d.	7/4-2d.
2/0d.	2/6d.	"	16/3d.	14/7-5d.
6d.	7½d.	VANISHING CREAM—Tubes and Jars	4/1d.	3/8-1d.
6d.	7½d.	COLD CREAM—Tubes and Jars	4/1d.	3/8-1d.
6d.	7½d.	SKIN FRESHENER	4/1d.	3/8-1d.

The above lines are subject to Purchase Tax of 33½% based on "Small's" prices.

AMAMI and POMPEIAN show material is still available for distribution. Please let us know your requirements.

PRICHARD & CONSTANCE (Manfg.) LTD., Boston Manor Road, BRENTFORD, Middx. Tel. EALING 5828/9

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CERESINE WAX

ALL GRADES AND
COLOURS

OZOKERITE

WHITE YELLOW
CRUDE

BEESWAX

WHITE AND
YELLOW

AND SPECIALLY PREPARED WAXES

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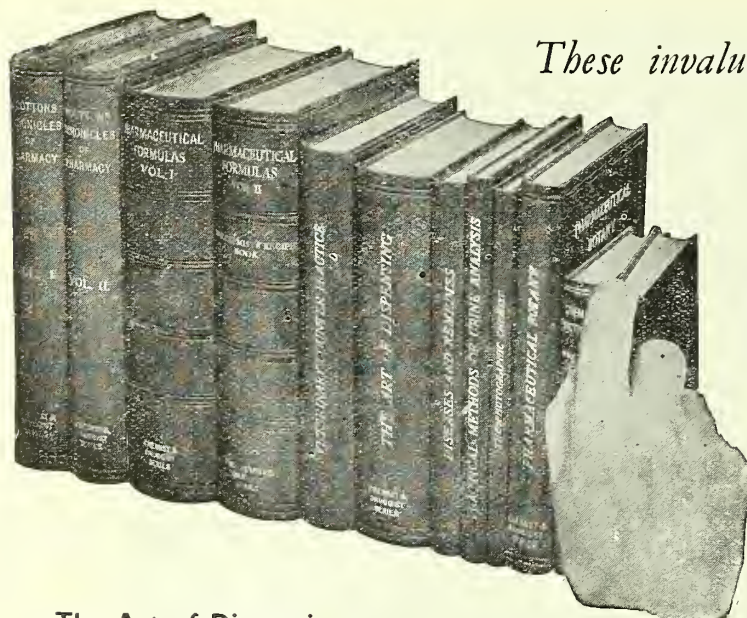
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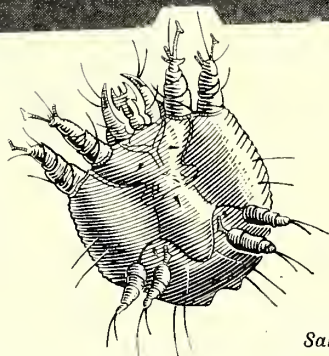
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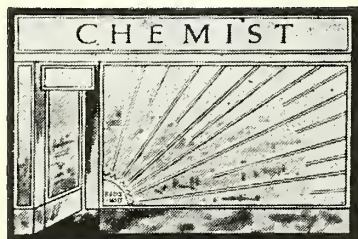
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NEWS OF THE WEEK

Summer Time Extension.—It was officially announced on October 24 that it had been decided to extend Summer Time throughout the coming winter.

Limitation of Supplies Order.—The Board of Trade announces that, for the date October 30, 1940 (being the date before which returns under the Limitation of Supplies (Miscellaneous) Order were required to be sent to the Assistant Secretary, Industrial Supplies (Registers) Department, Board of Trade, Fannum House, Whitcomb Street, London, W.C.2) there shall be substituted the date November 25, 1940.

"C. & D." Export Supplement.—The October issue of the *C. & D.* Export Supplement contained a number of articles printed in Spanish and French, publicising British pharmaceutical products, drugs, perfumery, druggists' sundries, etc. The issue has been specially circulated to buyers in all South American countries. The November issue of the Export Supplement will be an Empire number, with special articles appealing for support for British goods in all Empire markets. Specimen copies of recent issues are available free of charge to British manufacturers and wholesalers upon application to the Publisher, THE CHEMIST AND DRUGGIST, Pitman Press, Lower Bristol Road, Bath.

Socialist Medical Association.—At a meeting of the executive committee of the Association on October 10, Mr. B. A. Williams, M.P.S. (a member of the Council of the Pharmaceutical Society), proposed the following resolution: "That the Socialist Medical Association, in its policy for a socialised medical service, fully appreciates the specialised work of the pharmacist, and urges that the interests of medicine now and in the future are best served by reserving to qualified pharmacists the compounding and supplying of drugs." With the rapid expansion of medicine, said Mr. Williams, specialisation in the various subsidiary sections was essential in the interests of all concerned. Supporting the motion, Dr. L. T. Hilliard pointed out that, while general practitioners were employing unqualified dispensers to make up their prescriptions, pharmacists were being forced by economic necessity to devote more of their time to selling non-pharmaceutical commodities. Such a position was absurd. The president (Mr. Somerville Hastings, M.S., F.R.C.S.), intervened to suggest that it would be advisable on such an important matter to recommend acceptance of the resolution to the annual general meeting of the Association. This was agreed.

Purchase Tax.—The Commissioners of Customs and Excise have given notice that they will accept an arrangement whereby registered persons habitually buying goods as stock or materials may furnish a general statement to the seller covering all their purchases during a stated period not exceeding six months. This arrangement may be adopted as an alternative to the requirement of a particular statement on each order described in paragraph 6 of Customs and Excise Notice No. 77. A letter in the following terms addressed to each supplier concerned will be regarded as satisfactory for this purpose, provided it is signed by the proprietor of the business if an individual, by a partner in the case of a private firm or by a director or the secretary in the case of a limited company.

Dear Sirs,

As required by Section 24 (1) of the Finance (No. 2) Act, 1940, we hereby certify that we are the holders of Purchase Tax Registration Certificate No. We authorise and request you to invoice to us any goods liable to purchase tax which are supplied to our account within six months of the date of this letter without the addition of the amount of such tax, save where we notify you to the contrary in respect of any particular transaction. We intend to use all goods so supplied as stock for sale or as materials in manufacture. In the event of their being appropriated to retail trade or to other taxable purposes, it is understood that we will be accountable to the Crown for payment of tax thereon.

This letter must be retained by the supplier for production on demand to the proper officer of Customs and Excise. Unless the transaction is

covered by a specific order in the terms of paragraph 6 of Notice No. 77 or a general letter in the above terms, the seller is legally accountable for tax on the purchase.

Middlesex Pharmaceutical Association Proposed.—A committee to consider the formation of a County of Middlesex Pharmaceutical Association met at the Pharmaceutical Committee's offices recently, but no announcement has yet been made.

Purchase Tax Protest Urged.—At a recent meeting of the Oldham Chamber of Trade, a member urged that the Chamber should make a protest against the tax on medicine. The Chamber decided to leave to the chemists' organisation the decision whether a protest should be made.

Scientific Research Advisers.—The Lord President of the Council has appointed Professor A. V. Hill, M.P., Sir Felix Pole, and Professor Sir Robert Robinson to be members of the Advisory Council to the Committee of the Privy Council for Scientific and Industrial Research. Dr. W. H. Mills, Professor A. Robertson, Professor Sir Albert Seward, and Sir Harry Shackleton have retired from the Council on completion of their terms of office.

Bath Branch Annual Meeting.—The following officers and committee were elected at the annual meeting of the Bath Branch of the Pharmaceutical Society on October 23: *President*, Mr. W. W. Heseltine; *Vice-president*, Miss N. Ozzard; *Treasurer*, Mr. R. H. Moore; *Secretary*, Mr. W. J. Hallett, "Galen," Forester Lane, Bath; *Assistant-secretary*, Mr. L. E. Williams; *Press Correspondent*, Mr. C. H. James; *Committee*, Messrs. J. Aspell, A. O. Barton, T. J. Cornish, H. T. Doble, J. B. Grater, E. C. Haskins, C. Jenkin, C. L. G. Jenkin, G. T. Kingston, T. Swain, D. J. Williams, E. Williams, and L. Wilson.

Speech Day at Manchester.—Speech Day at the Pharmaceutical Department, Manchester University, was held on October 23, Miss Ivy Roberts, M.Sc. (president of the local Association) in the chair, supported by Mr. J. H. Franklin (chairman of the Pharmaceutical Society Branch). In the unavoidable absence of Mr. H. Brindle, Dr. K. Bullock read the report. He mentioned that the Woolley research scholarship had been awarded to Mr. J. W. Lightbown, B.Sc., Ph.C., that Imperial Chemical Industries, Ltd., had voted a grant of £50 per annum to be applied to pharmaceutical research in the department; and recalled that Mr. J. Grier had given a framed portrait of Mr. Louis Siebold (lecturer in pharmacy at the University). Mr. Grier, he announced, had obtained other portraits of early lecturers in pharmaceutical subjects, and when he had completed the collection they would be hung in the museum. At the request of the Ministry of Home Security research was being made into methods of protection from poison gases. All the accommodation for research was in full use.

Dr. T. H. Manners Kerfoot, M.B., Ch.B., then presented the prizes to the following (names in parentheses are of donors): FINAL B.Sc. AND PH.C. COURSE, *Silver medal* (Mr. J. Grier), and books value £3 3s. (James Woolley, Sons & Co., Ltd.); James Haydock; £2 2s. (Manchester Pharmaceutical Association); Fred Taylor. INTERMEDIATE B.Sc. (PHARM.) COURSE, £2 2s. (Mr. J. H. Franklin); Barbara J. Lovell; INTERMEDIATE COURSE, SALFORD, £2 2s. (local branch of Pharmaceutical Society); H. V. Hoyle. FIRST YEAR OR CHEMIST AND DRUGGIST QUALIFYING COURSE, *Silver medal* (Mr. H. Brindle), £3 3s. (Hough, Hoseason & Co., Ltd.), and £3 3s. (Oldfield, Pattinson & Co., Ltd.); Norman Baker; £2 2s. (Association president), and £2 2s. (Thomas Kerfoot & Co., Ltd.); Jack Harwood. BEST AGGREGATE BY STUDENT-ASSOCIATE (apart from other prizes), *British Pharmaceutical Codex* (Pharmaceutical Society); G. Harold Chapman.

Dr. Kerfoot then addressed the students. He described the conditions in pharmacy in the time of his pharmacist grandfather, and outlined the changes that had taken place in the profession since that period, dealing specially with the modifications brought about by the war of 1914-18. It remained with the younger generation, he summed up,

to build anew after the present war. Dr. Kerfoot was thanked by Mr. Grier, and Mr. Rowson moved a vote of thanks to donors of prizes. The president's address, "Pharmacy in War and Peace," was given by Miss Ivy Roberts, M.Sc., who said that, with reduced trade journals and fewer meetings, it was easy to find oneself getting out of touch with pharmaceutical events. For that reason she hoped that regular meetings would be maintained throughout the winter.

After a comprehensive review of the position of pharmacists in the national life today, Miss Roberts concluded with an appeal for shorter working hours in retail pharmacy and greater co-operation among members of the Society. A vote of thanks to Miss Roberts was proposed by Mr. J. H. Franklin.

IRELAND

Appointed to Red Cross Committee.—Mr. Benjamin Bassett, M.P.S.I., The Medical Hall, Malahide, has been appointed a member of the Malahide Red Cross Committee.

Trade Mark Application Refused.—The Controller of Commercial and Industrial Property on October 15 refused an application by Mr. Frank O'Reilly, trading as Healox Chemical Products, 284 Sundrive Road, Dublin, to have the word "healox" registered in respect of certain veterinary sundries. He gave as his reason the fact that the word "healox" was a combination of two dictionary words descriptive of the products.

Benevolent Fund Dance.—The annual dance and reunion in aid of the Benevolent Fund of the Pharmaceutical Society of Ireland will be held this year in the Aberdeen Hall of the Gresham Hotel on Wednesday, December 11. A committee under the chairmanship of Mr. Frank Roche, with Mr. Thomas Larkin as secretary and Mr. T. B. O'Sullivan and Mr. C. A. Collis as joint treasurers, is at work to make the event an outstanding success. Dancing will be from 10 p.m. to 3 a.m.; many spot prizes are to be awarded. The tickets are half a guinea each.

Examination Results.—The following candidates were successful in the October Licence examination of the Pharmaceutical Society of Ireland: Peter Joseph Bardon, Mrs. Ida Gertrude Elliot, Catherine Walburga Fullam, John Patrick Sylvester Gallagher, Jeremiah Lenihan, Christopher Matthew Morrissey, Jeremiah Joseph Murphy, Jane Nuala O'Donnell, Patrick Gerard Redmond. The following were successful in the Assistants' examination: Michael Joseph Dore, Francis Dwane, Agnes Consiglia Flannery, Honora Kennedy, Cyril Joseph Kirby, Dominick Gerard O'Dea, Robert Joseph O'Mahony, John Francis Rea.

Winter Closing Hours.—You have wisely called attention (p. 225) to the undesirability of ordering uniform hours for the closing of shops or classes of shops throughout the country. Since you wrote your editorial comment, it has been announced that summer time will continue throughout next winter. One result is that the then normal closing hour of 6 p.m. will, on this reckoning, become 7 p.m., with power for local authorities to allow evening business till a later time. It is evident that different views on hours of closing, and on general conditions of business, are taken in different parts of the country. Plymouth, for instance, intends to make 7.30 the normal closing hour, with one later time weekly. Glasgow authorities apparently wish their citizens to remain at home on Saturdays (p. 216), on the ground that crowded streets would be an element of danger in the event of air-raids. The British public have done many unaccustomed things as the result of war conditions, but will they agree to changing their shopping habits to the extent suggested? Early shopping, when it can be arranged, is convenient for both trader and customer: that, however, is no reason why all shops should be compulsorily closed at sunset. Admittedly the finding of one's way after nightfall is not easy; yet much may be done with the aid of an electric torch directed downwards, and I have noticed people walking homeward quite briskly in the dark.

The Planning of Supplies.—The annual report of the Association of British Chemical Manufacturers, amplified in the speech of the chairman at the annual meeting of the Association (p. 227), is worth careful reading for its record of successful grappling with war-time difficulties. Some of the problems confronting the executive and advisory staffs are new—for example, migration of labour; and the boldness of the responsible officials in handling such unaccustomed matters calls for congratulation. One sentence in the chairman's address may be stressed: "the industry had found it possible adequately to meet essential national requirements as they had developed up to the present time." That is the all-important fact at the moment, alike from a national and a sectional point of view. It means that, unless something very exceptional happens, there will be no repetition of the scarcity of certain chemicals experienced during the last war.

Northern Ireland Benevolent Fund.—A meeting of the committee of the Northern Ireland Chemists' Benevolent Fund was held recently at Waring Street, Belfast, when Messrs. Fred Storey (in the chair) J. McGregor (treasurer), R. Guiler, C. Abernethy, W. Martin, S. Nevin, W. Tate, Mrs. Martin and J. T. Nicholl (secretary) were present. The accounts to August 31, as certified by the auditors (Robert Walsh & Sons, chartered accountants), were presented and adopted. Means of raising money for the Fund were discussed and it was agreed to run a whist drive during the winter. One application for aid was considered and one grant made from the Fund.

Ulster Chemists' Association.—The executive committee of the Association has been keeping in close touch with the Customs and Excise authorities and the local price-regulation committee regarding the effect of the purchase tax upon retail prices, and as a result of their efforts the introduction of the tax has been attended with a minimum of inconvenience. Useful general direction has been given to members, and a scale of prices for reference has been issued. Members have been advised to make a note of all new prices received from manufacturers or advertised in *THE CHEMIST AND DRUGGIST*, and the information already published in the *C. & D.* has been found of great value. The secretary (Mr. James McClenahan, 39 Victoria Street, Belfast) invites manufacturers to send him information regarding new retail prices, changes in pack, etc., occasioned by the introduction of the tax. The information will be used in the compilation of a new retail price list to be issued to members as soon as the situation has become stabilised.

SCOTLAND

Glasgow Branch's District Meeting.—The next meeting of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society will be held at Kilmarnock on November 6. The meeting will open at 3 p.m. at Lauder's Restaurant, 22 King Street.

Changes in Closing Hours.—Paisley Chemists' Association has agreed that all chemists' shops within the burgh shall observe the following closing hours from November 3 until further notice:—Weekdays, 6.30 p.m.; Saturdays, 7 p.m. A suitable pharmaceutical service is to be available to the public on half-days and Sundays.

Edinburgh Evening Meeting.—The first evening meeting of the session of the North British Branch of the Pharmaceutical Society will be held at 36 York Place, Edinburgh, at 7 p.m. on Wednesday, November 13, Mr. W. F. Hay in the chair. The inaugural sessional address will be given by Mr. J. W. Cook, D.Sc., F.R.S. (Regius Professor of Chemistry, University of Glasgow), on "Some Biological Applications of Synthetic Chemistry."

TOPICAL REFLECTIONS

And I may call attention to the work of the Medicinal Chemicals Sub-group—work "of great importance," as the report justly remarks. To some of your readers it may be news that the Association has, in co-operation with the Ministry of Health, "planned comprehensively for meeting the war requirements of galenicals." One might have supposed that the ordinary sources of peace-time supply for galenicals would have sufficed in war also; but however that may be, it is satisfactory to know that a large-scale plan for supply has been devised, and that consequently there should be no shortage of these products in any quarter.

The Common Cold.—In reading the eighth of Dr. Prescott's articles on "Recent Developments in Therapeutics" (p. 226), like its predecessors a valuable compendium, I was attracted by his observations on the common cold. His summing up regarding certain experiments in the prophylaxis of that annoying complaint is judicious: "It would appear that the value of cold vaccines is best estimated by personal trial." A few years ago I saw an account of some team-work on the common cold undertaken by means of vaccines, antitoxins, or an analogous agency at a London hospital: presumably similar attempts have since been made to unravel the problems it presents. Dr. Prescott's conclusion seems to me to take us as far as we can go in this direction at present. When I find a mention of the common cold, my thoughts turn to Jane Austen's perfect valetudinarian Mr. Woodhouse. We are not told what Mr. Perry, his much-praised apothecary, prescribed for it; but we are left in no doubt as to Mr. Woodhouse's almost morbid anxiety about catching cold, alike on his own account and for the sake of other people. We know that on one occasion he declined to risk going out to dinner, although his would-be host had expressly purchased a folding screen, which it was hoped might keep him "from any draught of air"; that he thought a room at an inn "always damp and dangerous; never properly aired, or fit to be inhabited"; and that he believed nobody could be so imprudent as to dance in a room with the windows open. One may venture the guess that he would have welcomed a course of prophylactic vaccine, provided of course that Mr. Perry prescribed and administered it.

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LEGAL REPORTS

Sale of Food and Drugs Act.—At Dun Laoghaire District Court on October 24, Victor E. Hanna, Ltd., wholesale chemists, 69-71 Lower Mount Street, Dublin, were summoned in respect of a warranty given to F. W. Woolworth & Co., Ltd., Nassau Street, Dublin, on September 8, 1939, in respect of twelve dozen No. 34 tincture of iodine, which warranty was alleged to have been false. Guard King, an inspector under the Food and Drugs Act to the Dun Laoghaire Corporation gave evidence of purchasing twelve bottles of iodine at Messrs. Woolworth's, Dun Laoghaire, on May 9, 1940. He sent one-third of the iodine to the public analyst, gave one-third to Messrs. Woolworth and kept one-third himself. Replying to Mr. Maurice Walker, B.L., who defended, the witness said the bottles which he used for taking the samples were those which he used for taking samples of milk. He was never told that the contents should have been put into a bottle the glass of which protected them from the rays of the sun, or that the bottle should have a non-absorbent cork. Mr. Walker submitted to the Court that the warranty was given in September, 1939, and the purchase of the iodine made on May 9, 1940. He suggested that the warranty was not valid after six months. Mr. Raymond Kenny, who appeared for the Dun Laoghaire Corporation, argued that with every bottle of iodine sold at Woolworth's the warranty was renewed. Mr. B. G. Fagan, public analyst, said that the sample contained 2.3 per cent. w/v of iodine, whereas according to the requirements of the British Pharmacopœia, 1932, it should contain not less than 2.45 per cent. w/v. The witness said that iodine in solution was liable to deteriorate, and both the containers in which it was kept and the corks were of a special character. He attributed the deficiency to carelessness in compounding. The only item deficient was the iodine itself. Replying to Mr. Walker the witness said he took the British Pharmacopœial standard in making his analysis. He was not aware there was such a thing as an Irish Pharmacopœia. There was an Irish Act, but no standard had been set up under it. The Justice said such doubts as he had in the matter would of necessity go to the defendant, and accordingly he dismissed the summons.

Dispensing a Medical Prescription.—Before Mr. Hannan in the Dublin District Court on October 21, Michael Hally, the executor of the estate of Thomas Keawell, deceased, a pharmaceutical chemist, was summoned at the instance of the Pharmaceutical Society of Ireland with keeping open shop at the Kenilworth Pharmacy, Kenilworth Buildings, Harold's Cross Road, Dublin, for the dispensing and compounding of medical prescriptions, while not personally managing or conducting the shop, or employing a qualified person to do so. Mr. John J. Gaynor appeared for the Pharmaceutical Society, and Mr. R. Hogan defended. Evidence was given by a lady inspector of the Pharmaceutical Society of having presented a medical prescription at the pharmacy and of having it compounded for her by Mr. Albert W. Donald, a registered druggist, in the absence of Mr. Frank Whelan, the pharmaceutical chemist employed at the establishment. Mr. Hogan raised a preliminary objection on the grounds that no proof had been given that the prescription presented was a medical prescription. The doctor had not been brought to prove he wrote it. Mr. Gaynor said he was quite prepared to bring the doctor there who wrote the prescription tendered if the Court would adjourn the case. Mr. Hogan decided not to pursue his objection and the case proceeded. The Registrar of the Society (Mr. J. J. Kerr) stated that he sent a statutory letter to Mr. Hally and in reply was informed that Mr. Frank Whelan, a qualified pharmaceutical chemist, was in charge. He produced the Register to show that Mr. Donald, who was a registered druggist, was not qualified to dispense.

Mr. Hogan submitted that once Mr. Hally, as executor, had employed a qualified chemist to manage the pharmacy his responsibility ended. Mr. Gaynor, in reply, said that was not so, and stated that under Section 17 of the Pharmacy Act the person keeping open shop was held to be the retailer. In this case Mr. Hally was the person keeping open shop.

The Justice found the case proved, but said that since it was a first offence he would impose a fine of 5s. with £2 2s. costs.

"Black Magic" as a Trade Mark.—The "Black Magic" trade mark dispute was resumed before Mr. Justice Morton in the Chancery Division of the High Court on October 23, when he again had before him the appeal by Rowntree & Co., Ltd., chocolate manufacturers, York, from the decision of the Assistant Comptroller of Patents in opposition proceedings relating to an application by Mr. Edward Hack, High Holborn, London, for the registration of a trade mark (see *C. & D.*, October 12, p. 193). It was stated that Mr. Hack applied to register words "Black Magic" in respect of "medicated preparations in solid form for human use as laxatives." The Assistant Comptroller refused to permit registration in such a wide form but decided to allow it if limited so as to read: "Medicated preparations in solid form for human use as laxatives but not including preparations made with chocolate."

Messrs. Rowntree, who opposed the application, said that it ought

to have been refused altogether. They registered "Black Magic" as a trade mark for chocolate in 1932 and had made it a household phrase. They said they had built up a valuable goodwill in the sale of "Black Magic" chocolates of which, up to October 1939, they had sold a total of 32,431,000 boxes.

Their case was that if this description were used in connexion with laxatives people might erroneously assume that they were made with "Black Magic" chocolate or that such chocolate was a chocolate laxative, serious damage would thus be done to their business.

Mr. Hack denied that any such confusion would arise and said he did not see how the sale of laxatives could be detrimental to the sale of Messrs. Rowntree's goods.

Mr. Lloyd Jacob, for Mr. Hack, supported the decision of the Assistant Comptroller, who, he said, had great experience in dealing with such applications.

Mr. Justice Morton said that he approached the matter with an entirely open mind, but what troubled him was the general impression left on his mind by the evidence that people who asked for "Black Magic" laxatives would be apt to think that they were chocolate laxatives, because there were well-known chocolate laxatives on the market. Secondly he thought there was much to be said for the view that the public would think that the laxatives were made by the same people who made "Black Magic" chocolate.

Mr. Lloyd Jacob said that both these matters were fully considered by the Assistant Comptroller. There could not be the slightest justification for saying that it would be a normal development of Messrs. Rowntree's business to go in for the sale of chocolate laxatives. Counsel submitted that shops which sold both confectionery and laxatives were generally hucksters' shops. As to the allegation of possible confusion, he pointed out that Messrs. Rowntree's goods were asked for by weight.

Mr. Justice Morton said he did not think he could hold that there was any real risk of anyone who went into a shop to buy chocolate bringing away laxatives by mistake.

Mr. Lloyd Jacob: So far as sales side by side are concerned, the evidence is conclusive that only general stores would sell both. No manufacturer of chocolate, he added, had ever sold laxatives, even chocolate laxatives, to the public. They were totally dissimilar trades. "Black Magic" had never been associated with chocolate generally but only in respect of a certain particular assortment of chocolates.

The question was whether, having regard to the goods covered by Messrs. Rowntree's trade mark "Black Magic" and to the goods covered by the present application, those goods were sufficiently similar to goods with the same mark upon them to render them likely to be associated in the public mind. He argued that there could be no such association.

Mr. Justice Morton said he could see no evidence that Mr. Hack deliberately adopted the trade mark with intent to cause confusion.

Mr. Lloyd Jacob said there could be no such suggestion.

Mr. R. Burrell, K.C., replying on behalf of Messrs. Rowntree, on October 24, said Mr. Hack had persisted in his application notwithstanding the known objections to it. Counsel added that Messrs. Rowntree had also acquired a reputation as manufacturers of medicated goods. This was of importance in view of the possibility of confusion arising through the use of the trade mark by Mr. Hack.

The hearing was again adjourned.

COMPANY NEWS

P.C. means Private Company and R.O. Registered Office

WM. C. HOLLAND (DYESTUFFS), LTD. (P.C.).—Capital £1,000. Objects: To carry on business as wholesale and retail dealers in dyestuffs, druggists' sundriesmen, etc. W. C. Holland, Meadowcroft, Rawdon, Yorks, director. R.O.: 48 Vicar Lane, Bradford.

W. L. MILLION, LTD. (P.C.).—Capital £4,000. Objects: To acquire business of a chemist and druggist carried on as "W. L. Million" at 168 Fleet Road, Fleet, Hants. Bessie G. and George H. H. Million, 168 Fleet Road, Fleet, and Cyril E. Courtenay, M.P.S., Nine Chimes, Kings Road, Fleet, directors. R.O.: 168 Fleet Road.

LEVER BROTHERS & UNILEVER, LTD.—It is announced that no interim dividend will be paid on the ordinary capital. Last year the interim dividend was 4½ per cent., and the final, 5½ per cent.

Voluntary Liquidation.—HOMBURG PHARMA, LTD., manufacturing chemists, Africa House, Kingsway, London, W.C.2. The statutory meeting of creditors herein was held recently. Statement of affairs disclosed ranking liabilities of £4,264, and, after allowing £80 for preferential rent, the net assets were £2,477—a deficiency, as regarded the creditors, of £1,787. The principal assets were book debts, £2,027 (estimated to produce £1,190). The issued capital of the company was £1,000. So far as the shareholders were concerned there was a deficiency of £2,787. It was decided that the voluntary liquidation should be continued, with Mr. T. J. Bond as liquidator.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

THE monthly meeting of the Northern Ireland Pharmaceutical Council was held at 73 University Street, Belfast, on October 18, the president (Mr. Walter C. Tate) in the chair. There were also present the vice-president (Mr. James Glendinning), Dr. S. E. A. Acheson, and Messrs. H. F. Moore, J. E. Connor, J. P., J. F. Grimes, J. P., Chas. Abernethy, J. Trevor Nicholl, J. W. Gray, J. P., John McGregor and James McDowell. The secretary (Mr. D. L. Kirkpatrick) was in attendance.

At the outset the Council stood for a moment in silent tribute to the memory of the late Mr. Andrew C. McBride, Armagh, a former colleague. Proposing this, THE PRESIDENT said Andrew Carlisle McBride, a foundation member of the Council, had been regular in his attendance at their meetings, and by his unswerving loyalty to the highest principles of his profession and his intense interest in all matters pertaining to the advancement of pharmacy earned a high place in the esteem of his fellow councillors and the members of the Society. In 1927 he had been installed as president, had carried out the duties of the position with honour and dignity, and acquitted himself in a manner that evoked the highest praise. It was a sincere regret to them all that, owing to failing health a few years ago he had felt obliged to resign his Council seat, and they all felt they could ill afford to lose the services and mature judgment of such a standard-bearer of pharmacy.

THE SECRETARY read a letter from Mrs. McBride thanking the Council for their letter of sympathy and representation at her husband's funeral. MR. GRIMES said he would like to join in the president's tribute to their old colleague. Mr. McBride had been a close friend of his for many years and he could testify to his affection and loyalty.

MR. CONNOR, who said he had known Mr. McBride since their childhood, spoke of his genial and kindly disposition and of the loss the whole profession had sustained by his passing.

MR. GRAY, speaking as the successor of Mr. McBride on the Council, alluded to his public service in his native City of Armagh.

THE PRESIDENT recalled that when Mr. McBride was president of the Council in 1928 he had moved the Council's sympathy to his (Mr. Tate's) mother on the death of his father. He thought it rather a coincidence that it should fall to his (Mr. Tate's) lot to have that melancholy duty on the death of Mr. McBride.

MR. T. G. Rutledge, 29 High Street, Omagh, wrote that he had been trying to fix up classes for apprentices in Omagh for the Part I examination, and the position now was, if the pupils could subscribe £30 the Regional Committee could provide the classes. The maximum number of apprentices was five, and he thought the Council would agree that £6 per head was a pretty stiff fee. Was there any possibility of the Society making a small grant to the Technical School this year? The apprentices were quite prepared to pay a few pounds per head in order to get out the lectures, but he was afraid few of them could manage to pay the figure required.

MR. DONAGHY said there was a similar difficulty in Coleraine. The cost of classes there would be £45. He had canvassed the chemists' establishments in Coleraine, Ballymoney, Portrush, etc., and four students were all he could get. Two of these, however, were not in a position to pay their way at the classes, and he thought the Council should help.

MR. CONNOR and MR. NICHOLL agreed. After further discussion it was decided that Mr. Donaghy should table a notice of motion to empower the Council to grant financial assistance to the two centres mentioned, this to be of a partial nature. THE PRESIDENT said the next business on the agenda was the election of a new president. Before they proceeded with that, he would like to express very sincerely his appreciation of the manner in which the Council had supported him during his years of office.

"When you elected me to this position I accepted with no small misgivings on my part and with a feeling of unworthiness, but the loyalty you have shown and your ever-ready help have made my tenure of office far more enjoyable than I in my most optimistic moments

could have imagined. While very conscious of my failings still I hope I can hand over the insignia of office to my successor undimmed and untarnished." MR. TATE further said his one remaining privilege was to nominate the next president, and he had the greatest possible pleasure in proposing Mr. Glendinning, Londonderry. Mr. Glendinning required no introduction. His name was already known far beyond the ancient walls of the Maiden City. He was a man blessed with that priceless gift—personality—a man with a kindly heart, a true symbol of that fine body of pharmacists in his native city, whose loyalty to their Society and to one another was a byword in Northern Ireland.

The proposal was seconded by MR. CONNOR, who said that to know Mr. Glendinning was to love him, and his vast experience of the profession made him an ideal candidate for the presidential chair.

The motion was passed and Mr. Glendinning then took the chair.

MR. TATE said that before investing him with the chain of office he would like to take the opportunity of wishing Mr. Glendinning an enjoyable and successful tenure of office so that they all might look back on his occupancy of the chair as an outstanding year in the annals of their Society. "It has been truly said," went on Mr. Tate, "that the greatest honour any man can receive is to be honoured by the members of his own profession. Today we have bestowed on you the highest honour in our power, and in congratulating you I can assure you of the loyal support and assistance of your colleagues. May you improve on the commissions and rectify the omissions of your predecessor, and guide and direct our actions so that the result may be always for the welfare and advancement of pharmacy."

MR. GLENDINNING, replying, said he took the chair with great diffidence because it would be a most difficult undertaking to follow in the footsteps of a man of the calibre of Walter Tate. If they would bear with him, however, he promised them that he would do his utmost to uphold the grand traditions of their Society and their profession.

On the motion of MR. NICHOLL, seconded by MR. DONAGHY, Mr. Moore was elected vice-president. Both spoke in glowing terms of Mr. Moore's work as treasurer, and expressed the opinion that he would fill his new position with great acceptance.

MR. MOORE said he feared that he did not come up to the exacting requirements of the vice-presidency, but like the president he would do his best.

On the proposal of MR. MOORE, seconded by MR. McDOWELL, Mr. Nicholl was appointed treasurer. He said, in reply, that he would try hard to follow the good example of Mr. Moore, his predecessor.

The Committees were appointed as follows: *Education*.—Professor J. Small, D.Sc., Walter C. Tate, J. McDowell, J. McGregor, W. Martin and J. T. Nicholl; *Law*.—Dr. Acheson, C. Abernethy, J. McGregor, S. Gibson, J.P., J. E. Connor, J.P., J. McDowell and J. T. Nicholl; *House*.—C. Abernethy, J. McGregor, W. Martin, W. C. Tate, J. T. Nicholl and J. McDowell; *General Purposes*.—Professor E. B. C. Mayrs, M.D., J. W. Gray, J.P., W. Martin, C. Abernethy, J. T. Nicholl and James McDowell; *Finance*.—Sir Thomas McMullan, S. H. Forrest, J. Donaghy, J. T. Nicholl, S. Gibson, J.P., and I. W. Parker. R. Walsh & Sons were again appointed auditors.

In reply to MR. MCGREGOR, THE SECRETARY stated that so far 228 members had paid their subscriptions and were accordingly entitled to be called members. The other subscriptions had not yet come in, but he had no doubt they would do so in due course. There were about 500 members of the Society last year.

A letter was received from Dr. Driver, stating that he had been granted a commission in the Army, and would not be able to act as examiner at the Society's December examinations. Mr. Samuel Gibson, J.P., wrote thanking the Council for sympathy in his recent illness.

THE SECRETARY reported that John P. Fitzsimons, Joshua Kerr and Herbert V. Lyness had passed the Preliminary examination held at Queen's University in September.

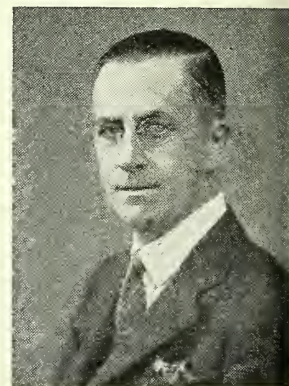
The following were elected members of the Society: Miss Jean Cameron, 180 Connsbrook Avenue, Belfast; Gerald Eugene Magee, The Diamond, Irvinestown; William Smiley Hall, 13 Dunluce Street, Larne, and James Davis Pollock, 3 Fifth Avenue, Ballylands, Bangor.

On the proposal of MR. GRAY, seconded by MR. ABERNETHY, it was decided, owing to the black-out and travel difficulties, to change the time of the Council meeting to 11.15 a.m. and the Finance Committee meeting to 11 a.m.

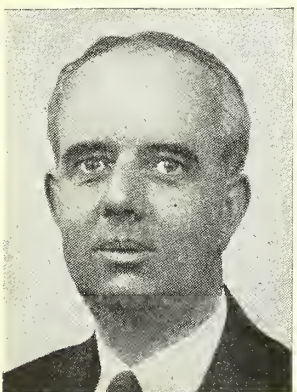
A notice of motion by MR. MOORE, seconded by MR. NICHOLL, making a grant of £25 to the "Belfast Telegraph" Spitfire Fund, was adopted.



MR. J. GLENDINNING



MR. J. T. NICHOLL



MR. H. F. MOORE

TRADE NOTES

ALLENBURY'S PRODUCTS.—Allen & Hanburys, Ltd., London, E.2, advertise in this issue a list of specialities that are in full supply, and state that their surgical manufacturing plant is in full production.

POTTER & CLARKE, LTD., wish to advise the trade that in their advertisement in the Coloured Supplement last week (p. xvi), the retail prices include purchase tax but the wholesale prices are exclusive of the tax.

NEW SPECIALITIES.—"Nervecalmer" air-raid tablets (triple bromides, gr. 7½) and an energising vitamin tonic (glycerophosphates with vitamins A, B and D) are new specialities advertised in this issue by Burgoyne, Burbidges & Co., Ltd., London, E.6.

DISTRIBUTION TAKEN OVER.—Wilcox, Jozeau & Co., Ltd., 74-77 White Lion Street, London, N.1, have taken over the sole distribution in Great Britain and Eire of NDK Dentalvis. A new retail price including purchase tax has been fixed, and bonus terms are available.

PURCHASE TAX LABELS.—James Townsend & Sons, printers, Little Queen Street and Gandy Street, Exeter, have produced two labels, which can be supplied to chemists from stock, for affixing to goods on which purchase tax has been paid. The first, which measures about ½ in. x 1 in., states "... tax has been paid on this article." The second, size approximately ¾ in. sq., reads "Price with tax —."

DARK-ADAPTATION TESTER.—The Crookes' Laboratories (British Colloids, Ltd.), Gorst Road, Park Royal, London, N.W.10, have issued a reminder of the growing importance, at this season, of dark-adaptation tests. They direct attention to the Crookes' tester, which possesses the following features, claimed to be distinctive: Provision of white-painted illuminated tunnel to secure that the retina is uniformly bleached; ability to vary the test object; and employment of polaroid discs to vary the amount of light transmitted by the test object.

PRICES UNDER PURCHASE TAX.—Vinolia Co., Ltd., Bebington, Cheshire, have issued a circular setting out the wholesale price per gross, purchase tax payable, and new retail price of Vinolia soap, baby soap, shaving soap and gift boxes, together with details of quantity terms.—Cephos, Ltd., Blackburn, announce new retail prices of Cephos packs and of Cephos tablets and powders in single doses, the latter showing increased profits to retailers.—William R. Warner & Co., Ltd., Power Road, Chiswick, London, W.4, give details of retail prices including tax and cost prices *plus* tax of Sloans liniment, both stamped and unstamped.

COD LIVER OIL SUBSTITUTES.—The Addendum (2) to the B.P. 1932, which was evolved on the outbreak of war, had, as its main purpose, the official recognition and establishment of cod liver oil substitutes as B.P. products. No less than eight out of the ten additions to, and monographs in, the Addendum are concerned with cod liver oil or substitutes for it. In so far as they are compelled by circumstances to resort to the official substitutes until they are in a position to renew their full and legitimate service in the future, the following official B.P. substitutes for cod liver oil are now offered by British Cod Liver Oil Products (Hull), Ltd.:—

(1) *Vitaminised oil.* This is the nearest approach in character and properties to cod liver oil amongst the substitutes now official. It can be substituted for cod liver oil for bottling, for the manufacture of emulsions or malt and oil, etc. The vitamin potency is 1,000 International units of Vitamin A and 100 International units of vitamin D per gm. It is available in either of two grades: (a) Cod liver oil compound (Oleum Vitaminatum B.P.). This is made from selected stocks of high vitamin-value pure cod liver oil, with the minimum permitted addition to the B.P. specification. (b) Oleum vitaminatum. For this product, and for the other products below, any of the B.P. permitted sources of vitamins A and D and of blending oil may be used. (2) Concentrated solution of vitamins A and D (Liq. Vitamin. A et D Conc. B.P.). Contains 50,000 units of vitamin-A activity and 5,000 units of Vitamin D in each gm. (3) Concentrated solution of vitamin A (Liq. Vitamin. A Conc. B.P.). Contains 50,000 units of vitamin-A activity per gm. (4) Concentrated solution of vitamin D (Liq. vitamin. D. Conc. B.P.). Contains in 1 gm. 10,000 units of antirachitic activity. Both the vitamin A and D potencies are standardised biologically. The more concentrated substitutes 2, 3, and 4 above are suitable for manufacturing purposes, or for direct therapeutic use, as oil or capsules.

Business Changes

SKOL PRODUCTS, LTD., have removed to 1 New Street, Worcester.

ARMOUR & CO., LTD. advise us that the new telephone number of the Armour Laboratories is Hop 2102.

PRITCHARD, WOOD & PARTNERS, LTD., advertising agents, have removed to 13-15 Bouverie Street, London, E.C.4.

HENRY TETLOW & CO., LTD., announce that all communications should be addressed: c/o The Laboratories, Hampton Road, Hanworth, Middlesex.

DEATHS

DEMUTH.—At Countess Wear, Exeter, on October 24, Mr. R. Demuth, manufacturing chemist, London, N.W.6, aged seventy-five. Mr. Demuth left Germany as a young man and during his lifetime travelled all over the world. He put up the first sulphuric acid plant in Australia, and was instrumental in devising a process for the prevention of putrefaction in meat as it travelled in cold storage between Australia and England. He was one of the early pioneers in transport refrigeration in Africa, and also in that country made the first colloidal sulphur sheep-dip, invented a fermentation process in the early days of the wine industry, was successful in the cure of worm in the ostrich plague, developed a process which was adopted for the cure of a fruit-tree blight, and was one of the collaborators in the process for the manufacture of 40 per cent. commercial formalin. His adventurous spirit led him to make the first white man's crossing of the Gulf of Carpentaria in N.W. Australia, and take part in the early gold rushes in Western Australia. In 1896 he became a naturalised British subject. When he settled in England he set up in business as a manufacturing chemist, first in Budge Row and Mark Lane, and later at 68 Salusbury Road, where his business is still carried on by his two sons.

DENNISON.—At 58 Mountfield Gardens, Kenton, Newcastle-on-Tyne, on October 18, Mr. Robert Hurdley Dennison, M.P.S. Mr. Dennison qualified in 1914 and served in the last war with the Royal Army Medical Corps, being for some time in the pathological laboratories at Marseilles. After demobilisation he joined the representative staff of Wilkinson & Simpson, Ltd., Newcastle-on-Tyne; in 1921 he entered into partnership with Mr. Dean in his old-established business in the same city. On the retirement of Mr. Dean in 1925 Mr. Dennison was joined by Mr. G. H. M. Graham and continued trading under the style of Dennison & Graham. Apart from his business activities Mr. Dennison took the keenest interest in pharmaceutical affairs, and gave a good deal of his leisure time in his support of the local organisations. In turn he had been secretary and chairman of the Newcastle District and Northumberland Branch of the Pharmaceutical Society, secretary and chairman of the Newcastle and Gateshead Branch of the National Pharmaceutical Union, secretary and chairman and for some time a member of the national council of the Photographic Dealers' Association.

LONG.—At 46 Erleigh Road, Reading, on October 14, Mr. Herbert Henry Long, M.P.S., aged seventy-five. Mr. Long, himself the son of a well-known pharmacist, was for many years proprietor of the business of Davies & Long, Dorset Street, London, W.1. He transferred his activities to Reading, his home town, in 1922. A keen collector of old books and prints, he was a member of the Berkshire Archaeological Society and of the Reading Natural History Society. He was a bachelor whose genial and generous disposition had given him a wide circle of friends.

NIMAN.—At Leeds, on October 17, Mr. Harry Niman, M.P.S., 70 Tottenham Court Road, London, W.1, aged forty-eight.

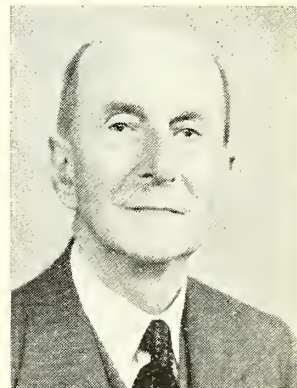
PERSONALITIES

MR. W. DEACON, J.P., president of the Pharmaceutical Society, has been elected chairman of the Somerset Insurance Committee.

MR. H. RENSHAW CLARKE, M.P.S., who took over the management of Robert Ferber, Ltd., manufacturing chemists, London, S.E.15, fifteen months ago, has been appointed a director of the company.

MR. A. G. SURFLEET, Ph.C., is resigning from the position of managing director of and is retiring from active participation in the business of Lofthouse & Saltner, Ltd., manufacturing chemists, Hull, after thirty-eight years in the service of the firm. Mr. Surfleet, who is in his seventy-fifth year, remains a director, and for the time being continues as chairman of the company. He qualified in 1888 and spent some years in retail pharmacy before passing to the wholesale and manufacturing sides in which most of his business life has been spent. Mr. G. G. Simpson, who has for many years represented the firm in the West Riding of Yorkshire, and Mr. W. H. G. Whitlow (secretary) have been appointed joint managing directors of the company.

MR. JAMES COUTTS, Ph.D., Ph.C., F.R.S.E., has been asked by Lord Horder (chairman of the Inter-departmental Committee on Public Air-raid Shelters appointed by the Ministries of Health and Home Security), to advise the Committee on the medicinal supplies with which it is proposed to equip the larger shelters.



MR. A. G. SURFLEET, Ph.C.



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PARLIAMENTARY NEWS

War Risks Insurance Claims.—Major G. Lloyd George, in reply to a question by Mr. Simmonds on October 22, said that the net premiums received under the War Risks Insurance Act, 1939, up to October 19, after allowing for refunds made under the concession for September 1939, was £41,404,502. It was not in the national interest that the value of the claims admitted should be disclosed.

Surplus World Raw Materials.—Mr. Price asked the Minister of Economic Warfare on October 22 whether he would consider approaching the Governments of the Dominions, the United States of America and the South American Republics with a view to forming a price-equalisation corporation to buy up surplus raw materials on the world markets and unload them gradually after the war in order to prevent violent post-war slumps.

The Minister of Economic Warfare (Mr. Hugh Dalton): His Majesty's Government is already in touch with the Governments of the Dominions and the U.S.A. regarding problems of surpluses, both in regard to raw materials and foodstuffs. . . . An important mission, headed by Lord Winterton, is shortly proceeding to South America to discuss with the Governments of the South American Republics various commercial questions of common concern. The House will recall that, on August 20, the Prime Minister stated that the Government would do their best to encourage the building-up of reserves of food all over the world for the relief of European countries when these had been wholly cleared of German forces and had genuinely regained their freedom.

Mr. Dalton further said that certain contacts had been made with Dutch and Belgian representatives, although it was not at that stage possible to make a full statement.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

for RETAILER — WHOLESALER — MANUFACTURER

Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades and Industries in Great Britain, Eire, The British Empire and all foreign countries

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Export Trade Maintained

DESPITE the intensification of aerial warfare over this country and the enemy's attempt to dislocate shipping during September, export figures for that month were maintained at the high level of over £31 millions. This satisfactory result, achieved in the face of the enemy's efforts to disturb commerce and industry, provides the best possible evidence of Britain's ability to "deliver the goods." The value of exports at £31 millions, however, is still a long way short of the total aimed at, and it is obvious that still greater efforts will be required to develop alternative markets to those now closed to us on the Continent. In this connexion, individual exporters and the export groups have already done excellent work, the full results of which are now beginning to show. When comparing the September figures with those for the previous month (£32.5 millions), it should be noted that August was a longer working period. On this basis the export figures for the two months show only a very small difference—a remarkable tribute to the steadiness of British overseas trade under the conditions of total war. Comparison of the September figures with those of the corresponding month of the previous year is affected by the disturbance of trade which followed the outbreak of war. Compared with August of this year the September export figures show a small increase for raw materials, as a result of slightly larger exports of coal, while for food, drink and tobacco and manufactured articles the decline did not exceed 5 per cent. Exports of machinery declined by £0.6 million, while the figures for vehicles and cotton yarns and manufactures were each lower by £0.4 million. In five groups of manufactures, exports were higher than in August, the most substantial gain being in iron and steel and miscellaneous manufactures. Re-exports during September totalled £1.2 millions, a decline of £0.2 million compared with the previous month.

Imports during the month under review were valued at £80.6 millions, £14.4 millions less than in August, resulting in a sharp fall in the adverse balance of trade from £61.1 millions in August to £48.3 millions, the lowest figure since December 1939. For the nine months of the present year the excess of imports amounted to £505 millions, which was £225 millions more than a year ago. Compared with August, imports of food, drink and tobacco declined by £5.9 millions, raw materials by £6.6 millions, and manufactured articles by £1.9 millions.

Overseas trade in chemicals and allied products forms an important part of the nation's business, and for many months past the figures for this class of product have been one of the strongest features of the trade returns. During September, exports of chemical and allied products totalled £2,174,882, a substantial increase over the figures for the corresponding months of the two previous years. When compared with August of this year, however, there is a decline of £25,759. Re-exports of chemicals and allied products during September show a fall of £12,033 when compared with the previous month. On the import side of the accounts the September figures for chemicals and

allied products were £1,045,560, compared with £1,624,612 in August, a decline of £579,052. The credit balance for the group was no less than £1,141,355, the highest total reached for over twelve months.

War Damaged Properties

THERE is evidence of conflicting advice on the legal position as between landlord and tenant on the subject of the latter's liability for rent from the time premises, business or residential, become uninhabitable as the result of enemy action. One stipendiary magistrate has indicated that tenants of such properties are relieved of the liability to pay rent until such time as the premises are reconditioned. An entirely opposite opinion has been given by the legal representatives of an organisation representing some landlords. The fact is, however, there is no legal machinery to deal with conditions as they are. The law, as it stands today, is out of tune and is entirely inadequate. It is quite beside the point to take a test case through the Courts. It would take months to get a decision. The matter is one of the utmost urgency and it is understood that the Government are now being pressed to introduce a Bill or issue an order under the Defence Regulations to clear up the position. The request for such action will receive widespread support.

Where premises are held on a weekly tenancy the matter is not of much importance, but where a shop or a house is occupied on lease a good deal is involved. Legally, possibly, much would depend upon the wording of the agreement between the parties concerned. But these are not the times to enter into lengthy and costly litigation. Landlords, of course, are responsible for payment of rates to local authorities and at present they are not relieved of this liability, particularly if the furniture and effects remain in the damaged premises. One point that needs clearing up is that of the liability for rent of premises that have been evacuated on account of delayed-action bombs. Such premises may receive considerable damage at a later date. Another is that of the purchaser of premises by way of a mortgage with a building society. Where damage has been caused to such shops or houses the building societies have generally dealt with the mortgagees in a considerate and helpful manner. An Order under the Defence Regulations could deal with all aspects of the matter, and it could be brought into operation without undue delay. The introduction of a Bill and its passage through Parliament may, in these busy days, take some time.

A little while ago a statement was made in the House of Commons that the Government intended to introduce a compulsory scheme of insurance for all types of properties. Such a scheme would go a long way to assist both landlords and tenant-owners. The announcement was made by the Prime Minister in the House, and he indicated that it would be retrospective. Some difficulty is being experienced in fixing the premium rates. Possibly these would vary to some extent, according to the district. It is a pity such a scheme was not instituted when it was first called for—a year before the outbreak of war. At that time the Chancellor of the Exchequer (Sir John Simon) said the idea was impracticable, as the liability could not be estimated.

War Risks Insurance Scheme

IN order to accelerate the settlement of claims under the War Risks (Commodities) Insurance scheme, the Board of Trade is speeding up the system as much as possible, and it is suggested there are several ways in which policy-holders can help. It is obvious that a war-time measure of such magnitude as this scheme, covering such an immense variety of commodities, presents many difficulties to the policy-holder and to the authorities. It is hoped, therefore, the following explanation of difficult points will serve to clear up any misunderstandings and consequently facilitate the settlement of claims. It is of the utmost importance that claims made by policy-holders should be in proper form and made without delay. In all correspondence, whether with insurance companies or with the Board of Trade, adequate and accurate details should be given of the policy referred to. Many claims are put in based on selling prices of goods; they should be based on cost prices. Another frequent cause of delay is inclusion in claims of goods that do not come within the scope of the scheme at all, and in this connexion it has been found that the published list of exemptions is often overlooked. There appears to be a general but mistaken notion that, after insured goods have been damaged, the policy-holder must wait until an assessor has arrived before taking salvage measures—for example, removing the goods to a place of safety. In actual fact, when damage to insured goods occurs through King's enemy risks, it is the duty of the policy-holder to take immediate steps to prevent further damage or loss by covering up or taking other adequate steps to protect them. It is not his duty to incur possible further damage or loss by waiting for an assessor before taking such action. If the policy-holder is unable to obtain material necessary to prevent further damage or loss, he should at once apply for assistance to his local authority, and if it is necessary for him, in order to avoid further loss, to incur expense in removing his goods to a place of safety, reasonable expenses for such removal will be allowed without assessment beforehand.

As soon as the policy-holder is aware that loss or damage has occurred, he must inform the insurance company or Lloyds, acting as the Board

of Trade's agents. Assuming the policy is valid, the insurance company or agents will at once report the case to the insurance official for the division in which the loss occurs. There are twelve of these insurance officials in different centres throughout the country.

When commodities are not on the owner's own premises but are, for instance, in a public warehouse, the duty of making any damage or loss known lies with the wharfingers, as the owner of the goods is not likely to be the first person to know of such damage or loss. The wharfingers have been asked, in the event of damage to goods lying in warehouses under their control, immediately to notify the appropriate insurance official. As a further means for speeding up the procedure, the Board of Trade has provided that the insurance official need not necessarily wait for reports from the wharfingers, or indeed from any particular person. He is required to act immediately on any information which comes to him from any source. The insurance official, immediately he is aware of loss or damage, is required forthwith to instruct an assessor to attend and to take all possible steps on the spot to avoid further damage. The available staff of assessors has been made as mobile as possible, and arrangements have been made to secure the release of a further number of these experts from military service. In many cases where damage or loss has occurred, stock records have been destroyed. The building itself may be inaccessible for days owing to the presence of unexploded bombs or other dangers arising from damage to the structure. The Board of Trade fully realise the hardship which traders may suffer through such circumstances and state they are doing everything they can to minimise delay. Where it appears that a period of delay is likely to be inevitable, arrangements have been sanctioned for substantial payments in advance of final settlement. After claims have been assessed, they are sent through the insurance official to the Central Claims Department of the Board of Trade. Here they are scrutinised and sometimes questions arise before final settlement can be made. It is emphasised, however, that everything that can reasonably be done to expedite settlement is done. The rate of premium is to be revised for the period after December 2, and the premium is considered more likely to be raised than lowered.

The Black-in

Faced with the impossibility of saving the candle-power at both ends of a midwinter day, the Home Secretary has plumped for lighter afternoons. "Summer" time is therefore to remain throughout the winter months. Certainly the consideration that prompted the adoption of "daylight saving" in the first instance does not apply to the present modification. Who gains by the extension? Thousands of office and industrial workers, for a start, especially in the Capital. Shopkeepers also, who may now expect afternoon calls from housewives who might never have stirred from home after the mid-day meal if Greenwich Mean Time had brought darkness and its war-time dangers long before tea-time. Industrial workers will continue at full production from sunrise until sundown each day, and in many instances throughout the night. The chief consideration in the minds of the Government appears to have been the chance London's millions will now enjoy of being able to get well advanced on their long and often complicated journey home before nightfall, for to be caught in a public air-raid shelter miles from home on a winter's night is a vastly different proposition from being held up on the way to work in the morning. Some problems will doubtless arise from the decision. A question, for example, to be decided by shopkeepers who close in daylight will be whether the amount of business to be done "before the dawn" next morning will warrant putting up the black-out before leaving at night, or whether the hour of opening next morning may be delayed.

Scientific Curiosity

It is an axiom in teaching that to achieve progress you must arouse the interest of the pupil. So long as interest in chemistry is lacking, examiners in pharmacy may continue to report that "there was a high proportion of weak candidates" (*C. & D.*, September 28, p. 170). On the other hand enthusiasm may outstrip knowledge, as happened recently at Felpham, near Bognor Regis, Sussex, where two boys—one the son of a pharmacist, though not, so far as we are aware, an "apprentice or student" in pharmacy—experimented to evolve a new explosive for the use of H.M. Forces. In such an event another remark in the same examiners' report is recalled, namely: "Several candidates did well in practical work, and would have passed but for their manifest weakness in theory." The two lads made a mixture of potassium chlorate and phosphorus, which "went off with such an explosion that it blew John right out of the garage and threw Douglas off his feet." It is regrettable that the would-be benefactors of the Allied cause should have conducted their dangerous researches on so limited a knowledge of chemical reactions, and still more to be deplored that their materials should have been "borrowed" from the parental pharmacy of one of them. Nevertheless, their enterprise and ambition are commendable, and we feel that both should be secured to the pharmaceutical profession. Perhaps father will indenture son and friend, though perhaps, having regard to his stock returns, he may prefer to see them apprenticed to a brother pharmacist.

Testamentary Profit-sharing

"Few chemists," states a news agency paragraph recently received by the Editor, "can claim to have made so magnificent a gesture as has the late Mr. William Robbie, who carried on business for many years at Tilly Lodge, Tarland, Aberdeenshire, and who . . . willed a large sum of money, not to charity or friends, but to his former customers." Few indeed! The arrangement made by Mr. Robbie in his will was apparently that each household that had been trading regularly with him weekly or monthly for the previous five years, whether "at his shop or from his van," was bequeathed the sum of £10. It has been pointed out that such a gesture as Mr. Robbie's could only have been made in a country area where families are more or less static. Equally it might be said that such a gesture could only have been made in a district where customers are more trusting and less suspicious than some we have come across. The acquisitive might allege that Mr. Robbie could have applied himself with greater assiduity to the business and thus put himself in the position to bequeath even larger amounts, or the cynical might charge that his bestowals had been prompted by a conscience troubled on account of the rate of profit he had exacted during his lifetime. It is again fortunate that such a profit-sharing act can take place no more than once per benefactor, for could it not be argued by the Proprietary Articles Trade Association to constitute a breach of their price-maintenance agreement with retailers? The question must be regarded as hypothetical in view of the impossibility of getting in touch with the retail party to the agreement, and of the improbability of the dilemma recurring frequently in practice.

NATIONAL PHARMACEUTICAL UNION

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4-5 Queen Square, London, W.C.1, on October 22, Mr. J. Hearle in the chair. The chairman welcomed Mr. F. E. Battershill, who had been co-opted to the Executive to replace Mr. C. J. Yeates. The secretary reported that the total amount received by the N.P.U. War Distress Fund for proprietor pharmacists up to the time of the meeting was £13,876. Weekly maintenance allowances were being made to fifteen applicants. Subscriptions paid to the Air-raid Assistance Fund to October 16 numbered 3,655, providing a subscription fund of £3,655, with a reserve fund of £18,275, totalling £21,930. This amount, less working expenses estimated at 10 per cent. of the subscription income, would be available to meet claims. Eighty-eight claims in respect of closure benefit had been received, of which fifty-seven had been completed and thirty-one remained outstanding. Claims in respect of repairs benefit numbered 120, of which thirteen had been completed and 107 were outstanding. The total estimated amount required to meet these claims represented 70 per cent. of the subscription income, and it was resolved that any subscription received after October 15 should provide three months' cover only, but that any amendment of the available benefits should be deferred until after January 15, 1941.

Medicine Stamp Duty.—In view of the announcement made by the Chancellor of the Exchequer that he would repeal the Medicine Stamp Duty in his next Budget, it was resolved that the chairman, treasurer and secretary of the N.P.U. should be appointed to meet representatives of the Proprietary Association and discuss the matter with them, reporting back to the Executive what might or might not be possible in the way of an agreement between the two bodies.

National Health Insurance.—The secretary reported that the Ministry of Health was not prepared to make further concessions for increased cost of containers.

C.D.A. Matters.—Mr. F. E. Battershill, Barnstaple, Devon, was elected a director. The secretary's report included particulars of developments in three cases left outstanding. One claim, which arose from an alleged error in dispensing, had been settled on payment of £13 13s. Another had been settled for £33. Ten other claims had arisen since the September meeting, and settlements had been effected in four. One member had been defended in proceedings taken under the Lighting Restrictions Order in which a fine of £5 had been imposed.

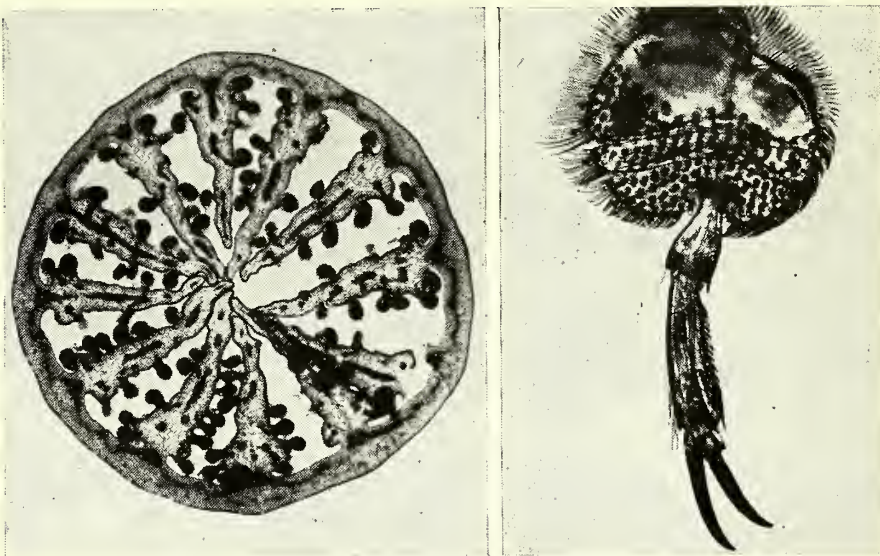
Chemists' Friends Council.—A meeting of the C.F. Council was held at 4-5 Queen Square, London, W.C.1, on October 15, Mr. J. D. Bohn in the chair. Applications from two manufacturers for inclusion of their products in the Chemists' Friends list were accepted, one of them subject to completion of the necessary formalities and the other subject to a slight adjustment of terms. The Scottish Committee reported on applications from two wholesalers for inclusion of their names in the list of approved distributors by wholesale of C.F. goods in Scotland. One such application concerning the list in England and Wales was considered and accepted for inclusion in Section B, subject to recognition of the applicants as wholesalers by the Proprietary Articles Trade Association. A draft copy of the Association's balance sheet for the year ended September 30 was submitted to the Council prior to its inclusion in the annual report for presentation to manufacturer members at their annual meeting in November.

DEVELOPMENTS IN OPTICAL PLASTICS

TRANSSPARENT plastics have been available for about fifty years, and have had industrial applications for the greater part of that time, but only recently have they been produced commercially in what might be called an optical grade. The essential requirements for this designation are (i) ability to transmit light without appreciable reduction in intensity over a useful part of the spectrum, (ii) clarity, which is a combination of properties involving the absence of factors causing distortion, reflection of or selective action upon light rays passing from one internal boundary to the other, (iii) high refractive index coupled with low dispersion, and (iv) ability to take, and to retain, boundary surfaces which can be predetermined to very fine limits. Few materials have been able to challenge glass in this field, and, of the ten or so chemical compositions that can reasonably be described as transparent plastics, only methyl methacrylate emerges for serious consideration in the manufacture of lenses. Some success was obtained in 1924 with lenses made from a urea-formaldehyde condensation product, but there was no commercial outcome. It was not until 1931 that polymerised methyl methacrylate, by virtue of its crystal clarity, began to attract the attention of those concerned with problems of light transmission. Supplies of the material for moulders were not, however, obtainable until 1937.

Experts were aware of the likely advantages of utilising so tractable a material, but wisely refrained from too rapid exploitation until evidence of inherent stability was available, for many of the earlier transparent plastics had been found to undergo secular changes on exposure to air and to sunlight. Such faults could not always be detected by the usual accelerated-ageing tests, and it was not until actual weathering and ageing tests of a protracted nature had been successfully negotiated that the designers of optical equipment began seriously to consider applying the new medium. Visitors to the British Industries Fair, 1938, and to the annual exhibition of the Physical Society during the same year may remember seeing specimens of synthetic resin lenses exhibited in anticipation of their commercial exploitation. It was claimed for these that "high-precision lenses for all purposes, possessing outstanding polish and transparency, ultra-light weight, unbreakable and fully comparable both in price and performance with high quality optical glass lenses, are now available in quantity as a result of the most revolutionary development of the century in the optical industry." The revolutionary development was, presumably, the substitution of moulding for grinding and polishing as a production process, polish being imparted direct from the chromium-plated mould without further treatment. Considerable weight is given to the manufacturers' assertion by the fact that aspherical lenses can be produced in the mould as easily as those bounded by spherical surfaces. Unfortunately the promise of commercial development held out in the claims has yet to be fulfilled.

Recent Experiments.—A range of three simple plano-convex units has been offered suitable for examination of postage stamps. With these units the writer has successfully carried out experiments in producing combinations for photography, photomicrography, and projection. The simplicity of the units made it necessary to overcome spherical aberration and coma by the use of stops in the vicinity of $f/8$ and $f/11$, chromatic aberration by the use of light filters, and rectilinear distortion by a symmetrical arrangement of the units on either side of the stop. When functioning as a condenser in projection work and enlarging, the focal length of the combination was kept long in order to take the lenses away from the heat of the illuminant, the material being thermo-plastic. No advantages manifested themselves in this series of experiments commensurate with the obvious disadvantages involved in using rather inappropriate units. Under different circumstances the transparency of methyl methacrylate to ultra-violet light might be a consideration, but not for photomicrography at low magnifications as used. Nevertheless, a considerable measure of success was achieved. The photomicrographs reproduced on this page are an indication that a new material of great potentiality has emerged from the laboratory. Acrylic mouldings are not necessarily transparent or colourless. By introducing suitable fillers or dyes a wide range of effects can be produced, though possibly not at a competitive price. The low yield temperature (55° – 60° C.) presumably renders the material unsuitable for many applications at present covered by British Standard Specifications. These considerations, however, must be set against the advantages of transparency, shock resistance, resistance to chemicals, and lightness in weight.—*W.D.O. (7/9).*



PHOTOMICROGRAPHS TAKEN WITH SYNTHETIC RESIN LENSES.—Left, *Transverse section of ovary of wild poppy.* Right, *Leg of water-beetle.*

INSURANCE ACT DISPENSING

Middlesex.—A meeting of the war emergency committee of the Pharmaceutical Committee was held on October 23, when it was decided to invite the chairmen and secretaries of the Essex, London and Surrey Pharmaceutical Committees to discuss with the chairman and secretary of the Middlesex Committee and the secretary of the National Pharmaceutical Union the desirability or otherwise of varying chemists' hours of service. During August there was a slight decrease in the number of prescriptions dispensed, (221,749 against 221,896 in August 1939) and a slight increase in the number of insured persons (868,816 against 862,289). There was a rise in the average cost of medicines per 1,000 insured persons from £9 14s. 4d. in August 1939 to £11 os. 3d. in August 1940, the increased cost being due to rises in prices of ingredients. If the cost of ingredients continues to rise, the additional value of stock which a chemist will have to carry will be much greater and the additional capital involved appreciable, and this tendency is to be watched by the Committee so that if necessary steps can be taken to secure better terms of service. The chairman reported upon arrangements that were being made for medical treatment in public air-raid shelters, and the Committee directed the secretary to send a letter in the following terms to the Pharmaceutical Society and the N.P.U.:—

At a meeting of the war emergency committee of the Middlesex Pharmaceutical Committee on October 23, it was reported that "The Times" of October 19 stated that the Minister of Home Security, with the co-operation of the Minister of Health, has made arrangements for constant medical attention and supervision of public air-raid shelters to protect the health of shelterers. The Committee noted in particular the following statement:—

"First-aid posts in shelters will carry, in addition to material for dealing with minor injuries, medicaments and equipment for the treatment of coughs, colds and minor ailments. All the medicaments will be provided at Government expense."

In view of the increased tendency that there will probably be for persons to seek shelter as the war proceeds, and in view of the amount of pharmaceutical work that may ultimately be involved, the Committee directed me to communicate with the Pharmaceutical Society and the National Pharmaceutical Union to ascertain whether the Ministry of Health has consulted the Society and the Union upon the pharmaceutical aspects of this matter. I have been directed to suggest that if such consultations have not taken place, the Society and the Union should consider whether the time is opportune to remind the Ministry of Health of its letter of January 13, 1940, in which an assurance was given that the arrangements for the supply of drugs for the treatment of evacuated children will not be regarded as a precedent, and that the Minister will consult with the representatives of pharmacists, so far as circumstances permit, in connexion with any similar arrangements which may be necessary in future. I feel sure that, if they have not already done so, the Society and the Union will give this matter their very careful consideration.

Scottish Association of Insurance Committees.—The annual report of the Association, recently issued, gives the number of persons in Scotland coming within the scope of the National Health Insurance scheme in 1939 as approximately 2,221,300 (inclusive of juvenile contributors), compared with 2,207,100 in the previous year. National Health Insurance prescriptions dispensed numbered 3,179,555, compared with the 3,003,421 during the preceding twelve months.

TRADE REPORT

Spot quotations recorded for pharmaceutical chemicals, crude drugs, essential oils, etc., represent the prices for wholesale quantities of standard quality. C.i.f. shipment quotations do not include marine war risk insurance and other abnormal charges which arise in the present emergency.

28 Essex Street, W.C.2, October 30

BUSINESS in most markets continues on a steady scale, but the demand is restricted in volume and chiefly for spot goods, while the general level of values continues firm. The demand for PHARMACEUTICAL CHEMICALS is about up to average. Reductions in the prices of CREAM OF TARTAR and TARTARIC ACID have occurred. AMIDOPYRINE continues steady, with business on the slow side. CITRIC ACID is nominal and unchanged. A fair business is reported in HEXAMINE at full prices. QUININE is quoted unchanged. Convention prices for SACCHARIN and SANTONIN show no alteration. A fair business is passing in SULPHANILAMIDE at full prices. VANILLIN is steady at the recent advance.

Crude Drugs

Most of the moderate business recorded in these commodities has been for spot goods, with consumers showing no desire to purchase more than is necessary for immediate requirements. AGAR continues in strong demand, and supplies are now rather difficult to obtain. There has been rather a good inquiry for CURAÇAO ALOES on spot; Cape is steady and unchanged. Recent orders for BENZOIN have been on a fair scale. JAPANESE CAMPHOR is steady but quiet on spot. A fair spot business is reported in CASCARA SAGRADA; shipment offers are not being freely made. COCONUT (DESICCATED) is quoted dearer on spot. CHILLIES are quiet. Rather better inquiry has been received for COLOCYNTH, especially for export. GINGER is steady. Stocks of HONEY are reported to be low, and prices would be a matter for negotiation. More inquiry has been received for Chinese MENTHOL, but prices from China are difficult to obtain. MERCURY is steady, the London spot quotation remaining unchanged. PEPPERS are firm. Quoted values of RHUBARB are steady, with spot inquiry up to average. RUBBER closed inactive, with all prices a shade dearer. SENEGA continues firm on spot, shipment being slightly easier. TRAGACANTH and WAXES are quiet.

Essential Oils

BUSINESS in these markets has proceeded on a moderate scale, and most orders have been for limited spot quantities. Quoted values are generally steady. A small spot business has been done in ALMOND and the price is steady. ANISE (STAR) is firmer on spot; there are no shipment offers. BAY is firmer. The value of BERGAMOT continues nominal, and spot values would have to be negotiated. There has been occasional small spot inquiry for CASSIA; the price is firm. CITRONELLA is dull and unchanged on spot; Ceylon for shipment is reported firmer. GERANIUM is firm, with quotations for both varieties about level on the week. LEMONGRASS is quoted a fraction dearer on spot, shipment firmer. ORANGE has been in fair demand, and business has been done at full prices. Both grades of PEPPERMINT have sold fairly well, and supplies are limited. PETITGRAIN is firm.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	October 23	October 30
Belgian Congo ..	Frs to £	nominal	176½*	176½*
Buenos Aires ..	Paper pesos to £	—	17°02*	17°02*
Java ..	Florins to £	12°107	7°60*	7°60*
Lisbon ..	Esc. to £	110	100°0*	100°0*
Madrid ..	Ptas. to £	25°24½	37°25	37°25
Montreal ..	Dols. to £	4°86½	4°45*	4°45*
New York ..	Dols. to £	nominal	4°03*	4°03*
Shanghai ..	Per dollar	—	3½d.	3½d.
Stockholm ..	Kr. to £	18°150	16°90*	16°90*
Yokohama ..	Per yen	25.	1s. 2½d.	1s. 2½d.
Zurich ..	Frs. to £	22°2115	17°35*	17°35*

* Rate fixed by Bank of England. Bank rate, 2 per cent.

Pharmaceutical Chemicals, etc.

DURING the week under review business has been on a moderate scale, the general tone remaining steady. Except for cream of tartar and tartaric acid, which are both quoted at lower prices, there have been no important price changes.

AMIDOPYRINE.—This product seems to be of only moderate interest to buyers, and dealers' prices are steady. Crystals, one cwt., about 27s. per lb., with smaller quantities up to about 30s. per lb. Powder, 3d. per lb. extra.

ATROPINE.—Makers' prices continue steady, as follows: ALKALOID, 21s. per oz.; 4 oz., 20s. 6d., and 25 oz., 20s. per oz. SULPHATE, 16s. 6d. per oz.; 4 oz., 16s., and 25 oz., 15s. 6d. per oz.

Bottles, under 5 gm. or ½ oz., corked, 3d.; stoppered, 5d.; 5 gm. to 25 gm. or ½ oz. to 1 oz., corked, 3½d.; stoppered, 6d.; 25 gm. or 1 oz., corked, 3½d.; stoppered, 7½d.; 50 gm. or 2 oz., corked, 4d.; stoppered, 9d. each; 100 gm. and over, included in price; tubes, per 100, 5-gr., 10s. 6d.; 10-gr., 12s. 3d.; 15-gr., 14s.

BARBITONE.—Dealers are quoting spot prices unchanged as follows: One cwt., 22s. per lb.; 28 lb., 23s.; smaller quantities, up to 26s. per lb., ex store.

BENZALDEHYDE.—Firm, with spot material in short supply at about 3s. 6d. per lb., nominal.

BENZOIC ACID (B.P.).—A nominal price of from 2s. 6d. to 3s. per lb., according to quantity, continues to be quoted by makers. Supplies are limited.

BENZYL BENZOATE.—The nominal price now quoted by makers is between 2s. 9d. and 3s. per lb.

BORAX (B.P.).—No change in makers' prices: Granulated, £31; crystals £32; powder, £32 10s. per ton, in 1-cwt. bags, carriage paid in Great Britain for minimum one-ton lots. Commercial quality, £8 per ton less.

BORIC ACID (B.P.).—Steady and unchanged; makers quote as follows: Granulated, £45 10s.; crystals, £46 10s.; powder, £47 10s. per ton for minimum one-ton lots, in cwt. bags, carriage paid in Great Britain. Commercial qualities £8 per ton less.

CALCIUM LACTATE.—Makers are quoting up to 1s. 8d. per lb., but business is slow.

CITRIC ACID (B.P. CRYSTALS).—Makers are quoting a nominal price of 1s. 2d. per lb., less 5 per cent. discount.

CREAM OF TARTAR (B.P.).—Makers notify that their nominal quotation is now lower at 20s. per cwt., less 2½ per cent. discount, with supplies restricted to regular consumer customers.

CREOSOTE (BEECHWOOD).—The spot prices mentioned by dealers, for bulk supplies in 25-kilo demijohns, are from 6s. upwards per lb.

EMETINE HYDROCHLORIDE.—Makers continue to quote at between 100s. and 104s. per oz., according to quantity.

EPHEDRINE HYDROCHLORIDE (B.P.).—Ordinary quantities would be valued at from 7s. to 8s. per oz. Lots of 1,000 oz. would be at a slightly lower figure.

ETHERS (METHYLATED).—Makers' prices remain unchanged, as follows:—

Specific Gravity and Grade	Winchester quarts, per lb.	Not less than		Drums, per lb.
		6 w. qts., per lb.	12 w. qts., per lb.	
0°750 ..	s. d.	s. d.	s. d.	s. d.
0°735 ..	1 4½	1 4	1 3½	1 2½
0°730 ..	1 5	1 4½	1 4	1 3
0°725 ..	1 5	1 4½	1 4	1 3
0°725 ..	1 7	1 6½	1 6	1 5
0°725, triply rectified ..	1 11½	1 11	1 10½	1 9½
0°720 ..	1 8	1 7½	1 7	1 6
0°717 ..	2 2	2 1½	2 1	2 0
0°720 B.P., not for anaesthesia ..	1 10	1 9½	1 9	1 8

Net prices, usual terms. Special prices for quantities and contracts, subject to rise-and-fall clause. Prices for anaesthetic ethers unchanged.

GUAIACOL CARBONATE.—Market steady, quotations unchanged. Makers' and dealers' prices range between 12s. 6d. and 13s. per lb., ex store, according to quantity.

HEXAMINE.—The spot position of free-running crystals is maintained at about 2s. 1d. to 2s. 3d. per lb., ex store, according to quantity; powder is at cheaper prices.

MERCURY IODIDES.—The following are makers' prices per lb.: RED, less than 7 lb., 17s. 8d.; not less than 7 lb., 17s. 4d.; not less than 14 lb., 16s. 10d. GREEN, less than 7 lb., 19s. 6d.; not less than 7 lb., 19s. 2d.; not less than 14 lb., 18s. 8d. YELLOW, less than 7 lb., 21s. 3d.; not less than 7 lb., 20s. 11d.; not less than 14 lb., 20s. 5d. net, carriage paid.

METHYL SULPHONAL.—Now offering on spot at about 40s. to 42s. 6d. per lb., ex store, for small lots. Business is moderate.

PARALDEHYDE.—Spot prices for quantities, in 1-cwt. carboys, steady at about 11d. to 1s. per lb.

PHENACETIN.—Makers are quoting at about 3s. 9d. to 4s. per lb., without engagement, for ordinary quantities. Dealers quote at about 7s. 6d. to 8s. per lb.

PHENAZONE.—Market steady but quiet. Dealers' spot prices range between 17s. 6d. per lb. for bulk quantities and 22s. per lb. for smaller lots.

PHENOLPHTHALEIN.—Continues steady at makers' prices: Less than 7 lb., 3s. 8d. per lb.; 7 lb., 3s. 7d.; 14 lb., 3s. 6d.; 28 lb., 3s. 5d.; one cwt., 3s. 4d.

POTASSIUM PERMANGANATE.—Makers' scales of prices are unchanged:—

Minimum delivery of	B.P. Quality		Technical	
	In 1-cwt. drums Per lb.	In 5-cwt. drums Per lb.	In 1-cwt. drums Per cwt.	In 5-cwt. drums Per cwt.
1 cwt. up ..	s. d.	s. d.	s. d.	s. d.
3 cwt. up ..	1 5½	—	161 6	—
5 cwt. up ..	1 5	—	157 0	—
1 ton up ..	1 4½	1 4½	154 6	152 0
4 tons up ..	1 4½	1 4	152 0	149 6
4 tons up ..	1 4½	1 4	149 6	147 3

Terms: Net, delivered nearest railway station in Great Britain; drums extra and returnable.

SACCHARIN.—The duty-paid Convention price for 550 continues unchanged at 98s. 4d. per lb. Neither wholesale nor retail price is under Government control.

SALOL.—Market firm; quotations unchanged. Spot, from 6s. 6d. upwards per lb.

SANTONIN.—Convention prices are unchanged: 15 kilos and over, £35 10s.; not less than 10 kilos, £36 5s.; not less than 5 kilos, £37; less than 5 kilos, £38 per kilo, delivered free in the U.K.; 1-kilo tins free.

SODIUM BENZOATE.—Makers' spot price for limited quantities is still nominal at about 2s. 3d. to 2s. 6d. per lb., according to quantity.

SULPHANILAMIDE.—Spot prices are steady at from 10s. 3d. to 11s. 6d. per lb., according to quantity.

SULPHONAL.—Dealers' spot prices continue firm in the region of 34s. to 37s. 6d. per lb., according to quantity.

TARTARIC ACID (B.P. CRYSTALS).—Makers notify a reduction in their nominal price to 2s. 6½d. per lb., less 5 per cent. discount, with supplies reserved for regular consumer customers.

VANILLIN.—British makers' prices are steady at the advance recorded last week. Ex clove oil or guaiacol, five cwt., 15s. 6d. per lb.; one cwt., 15s. 7½d.; 56 lb., 15s. 9d.; less than 56 lb., 16s., carriage paid in the U.K. Tins in cases are now returnable to makers.

Crude Drugs, etc.

The general tone in this market is fairly steady, and business is moving quietly on spot.

ACONITE ROOT.—Spot stocks seem to be limited, and any available material would be worth approximately 140s. per cwt., ex store.

AGAR.—This product has been in strong demand recently and supplies are now difficult to locate. Business has been done on spot in Kobe No. 1 at 11s. 9d. per lb., and it is understood that some odd lots are available at 12s.; Kobe No. 2, if available, would be valued at about 11s. 9d.; and Yokohama No. 1 at about the same price. There are still no shipment offers from origin.

ALOES.—A good demand prevails at steady prices. Curaçao continues to be quoted at in the region of 310s. to 350s. per cwt., ex store, according to quantity. Demand for Cape continues quiet, with spot quotations unchanged at about 57s. 6d. to 60s. per cwt. Zanzibar, leaves, if obtainable, about 90s. per cwt., ex store.

ANTIMONY.—Steady at former values, English, 99 per cent., £90 per ton, delivered; foreign regulus, £90 to £93 per ton, duty paid; Chinese regulus, £90 to £92 per ton, ex warehouse London.

ARNICA FLOWERS.—The value of spot material, if available, would be approximately 2s. 3d. per lb., ex store.

BALSAMS.—*Tolu* is now in short supply and quotations are at about 9s. per lb., nominal. *Canada*, also scarce on spot, valued at about 6s. per lb. *Copaiba*, Para, about 3s. 6d. to 3s. 9d. per lb. *Peru*, about 7s. 9d. per lb.

BELLADONNA.—No quotations are available for imported root or leaves. English-grown leaf is quoted at about 3s. 9d. per lb.

BENZOIN.—Recent orders for Sumatra gum have been on a fairly good scale. The spot market is steady, quotations ranging between £5 10s. and £6 15s. per cwt., ex store.

BISMUTH METAL.—The price is maintained at one dollar 25 cents per lb.

BUCHU.—Not much interest being shown. Fair green rounds, on spot, valued at about 3s. per lb., ex store; shipment, around 2s. 4d. per lb., c.i.f.

CAMPHOR.—Remains in fair inquiry, price about steady. Japanese, spot, tablets, about 6s. per lb.; slabs, about 5s. 3d. per lb.; a limited supply of flowers is understood to be available in London. Continental synthetic powder, 5s. 3d.; tablets, 5s. 6d. per lb., ex store. English refined, quoted as follows: Flowers, one cwt., 5s. 9d.; 28 lb., 5s. 10d.; less than 28 lb., 5s. 11d. per lb. Transparent tablets, ¼-oz., one cwt., 6s. 3d.; 28 lb., 6s. 4d.; less than 28 lb., 6s. 5d. per lb.

CANTHARIDES.—Business has been of small account, and quotations are about level in the week. Chinese, spot, about 4s. 3d. to 4s. 6d. per lb., duty paid; shipment, approximately 4s. 3d. per lb., c.i.f. Russian, if available, about 6s. per lb. on spot.

CARDAMOMS.—Market very quiet but quotations steady. Ceylon, spot, 3s. 6d. to 5s. per lb., according to quantity. Bombay seed, about 4s. 6d. per lb. Mangalore seed, about 4s. 3d. per lb. Aleppy greens, about 3s. 2d. per lb.

CASCARA SAGRADA.—Business continues on a fairly good scale, with spot quoted at in the region of 102s. 6d. to 110s. per cwt., according to age of bark. Material to arrive would now be priced at about 87s. 6d. per cwt., c.i.f., but offers are not being freely made.

CASCARILLA.—Not much business passing; values steady as quoted. Dealers are offering good silvery quill at approximately 1s. 6d. per lb., and siftings at 1s. 4d. per lb.

CHAMOMILES.—Stocks of Belgian flowers in first hands appear to be exhausted. Any odd lots of medium-quality available would be valued at up to about 4s. per lb., ex store.

CHILLIES.—The market has been rather quiet. Mombasa is quoted on spot at 125s. per cwt.; Zanzibar, f.a.q., 115s.; and Sierra Leone, 112s. 6d. per cwt.

CLOVES.—Zanzibar continues steady on spot at 10d. per lb., sellers; shipment, October–November, 9d. per lb., nominal, c.i.f. Madagascar quoted at 9½d. per lb., in bond.

COCHINEAL.—Steady and in quiet demand. Blacks on spot are valued at about 2s. per lb., and greys at 1s. 10½d. per lb.

COCO A BUTTER.—Quiet; spot quotations steady. Prime English, spot, 1s. 10d. per lb., ex wharf; foreign, 1s. 3d. per lb., duty paid, ex store.

COCONUT (DESICCATED).—Quoted dearer. Spot, fine, now 45s.; medium, 45s. per cwt., nominal.

COLOCYNTH.—There is a small demand on the spot, and supplies of pulp are valued at between 1s. 6d. and 2s. per lb., according to quality.

DANDELION ROOT.—No quotations are available, but about 200s. per cwt. would be the approximate value of any odd lots.

DIGITALIS LEAVES.—English-grown leaves are quoted at about 4s. per lb.

ERGOT.—The spot value of Spanish-Portuguese is between 8s. 6d. and 8s. 9d. per lb., ex store; shipment continues to be quoted unchanged at about 6s. 6d. per lb., c.i.f.

GAMBOGE.—Business is of average account, prices steady. Good-quality Siam pipe, valued at £25 to £26 per cwt., duty paid, ex store.

GENTIAN.—Any odd bags of sliced root would be worth about 1s. 9d. per lb., if available.

GINGER.—Steady, with quoted values unchanged. West African, spot, 40s. per cwt., sellers. Jamaican, spot, small-medium, 55s.; bold, in barrels, 90s. per cwt., ex store. Cochín, unwashed, 50s. per cwt., ex store.

GUM ACACIA.—Quiet. Kordofan cleaned sorts, on spot, quoted slightly dearer at about 82s. 6d. per cwt.; bleached, from 125s. to 150s. per cwt., according to quality; shipment, new crop, unchanged at 45s. per cwt., c.i.f., nominal.

HENBANE.—English leaf is quoted at approximately 6s. 6d. per lb.

HONEY.—Stocks now appear to be at a low level, and prices would be a matter for negotiation.

HYDRASTIS.—Untested material on spot is valued at about 18s. per lb. Tested, if available, would be worth between 21s. and 22s. per lb.

IPECACUANHA.—Continues steady, with a fair business passing. Matto Grosso, on spot, about 22s. per lb., ex store; shipment, about 20s. per lb., c.i.f. Minas, in good demand, spot being at about 11s. 6d. to 12s. 6d. per lb., according to test; shipment, steady at about 8s. to 8s. 6d. per lb., c.i.f. EXT. IPECAC. LIQ., unchanged at 30s. per lb. for minimum lots of twelve winchesters.

LA VENDER FLOWERS.—Good blue flowers, if available, would be worth around 2s. per lb., ex store.

LOBELIA HERB.—A modest business passing, values fully steady. Spot, about 10½d. to 11d. per lb., ex store.

MENTHOL.—More inquiry is reported, and it is difficult to obtain prices from China. Chinese, spot, would now be worth about 18s. per lb. Japanese, in limited supply, quoted on spot at about 21s. to 22s. per lb., ex store.

MERCURY.—The London spot quotation remains at £54 10s. per bottle of 34.5 kilos, ex warehouse, without engagement and subject to confirmation.

A considerable expansion in the production of cinnabar in British Columbia is understood to be projected, and it is anticipated that, in the first year of operation, one of the main plants will be capable of producing mercury to the value of \$750,000. Ore in the locality is stated to yield on average 0.8 per cent. of metal, compared with approximately 5 per cent. in Spain, 0.79 per cent. in Italy and 0.35 per cent. in the United States.

NUTMEGS.—There is a moderate demand on the spot. West Indian, 80's, quoted at about 1s. per lb.; 90's, 8d.; wormy and broken, about 6½d.

ORANGE PEEL.—The value of bitter quarters, if available, would be about 1s. 8d. per lb., ex store; thin-cut, now in the region of 3s. 9d., ex store.

PEPPER.—Market firm, with Lampong quoted slightly dearer on spot at 4d. per lb., in bond; shipment, November, nominal. Tellicherry, spot, easier at 4½d.; shipment, November, easier at 32s. 6d. per cwt., c.i.f. Aleppy, spot, unchanged at 4½d.; shipment, November, easier at 32s. 6d., sellers, c.i.f. White Muntok, spot, duty paid, 5½d.; in bond, 5½d., sellers; shipment, November, nominal.

PIMENTO.—Quoted values about steady; market quiet: spot, 1s. per lb., sellers; shipment, new-crop, November, 86s. per cwt., c.i.f., nominal.

PYRETHRUM.—Dealers are quoting spot material at about 185s. per cwt., ex store, but the demand is not active.

QUILLAIA BARK.—A little spot inquiry has occurred, with the value steady. Dealers are quoting a spot price of about 85s. per cwt., ex store.

RHUBARB.—Quoted values are steady, with spot inquiry fair. All-pinky rough-round would be worth about 5s. 4½d., per lb. and ordinary rough-round at about 5s. per lb. Shensi, round and flat, is valued at about 7s. 9d. per lb., and pickings at about 5s. 9d. per lb. Offers of rough-round for shipment are in the region of 4s. 4d. per lb., c.i.f.

RUBBER.—Quotations are steady at slightly higher levels; demand fair. Standard ribbed smoked sheet, spot, 11½d.; November, 11½d.; December, 11½d.; January, 11½d.; January–March, 11½d.; April–June, 11½d.

SAFFRON.—London quotation for genuine Spanish remains at 170s. per lb.

SEEDS.—ANISE.—Spot, 97s., duty paid; 95s., in bond. CANARY.—Spot, duty paid, Morocco, 45s.; Plate, 42s. 6d. CARAWAY.—Dutch, now quoted at 200s., duty paid. CORIANDER.—Spot, Morocco, 45s. to 46s., duty paid, ex wharf London; 42s. 6d. quoted, duty paid, ex store Liverpool. CUMIN.—Spot, 145s., duty paid, quoted. DILL.—Spot, Indian, nominal at 47s. 6d., duty free, ex store Liverpool. FENNEL.—Spot, Indian, 55s., duty free. FENU-GREEK.—Spot, Morocco, quoted at 22s., duty paid, ex wharf London, and 21s., duty paid, ex store Liverpool. MUSTARD.—Spot, 52s. 6d. to 68s., according to quality.

SENEGA.—Dealers' quotations continue firm, with most holders asking 3s. 9d. per lb. Shipment is quoted slightly easier at about 3s. 6d. per lb., c.i.f., with freight difficult to obtain.

SENNA.—Spot values of all descriptions continue unchanged. Best pale hand-picked Timnevelly pods are valued at 10½d. per lb., with darker grades at between 6½d. and 7½d.; f.a.q., 5½d. per lb.; leaves, No. 1, about 8½d.; No. 2, 5½d.; and No. 3, 4½d. per lb. Hand-picked Alexandrian continues nominal and in short supply.

SHELLAC.—This product has had another quiet week, and the price is steady. Standard TN orange, spot, 80s.; pure button, 110s.; fine orange, 105s. to 170s. per cwt.

TRAGACANTH.—In small inquiry only, with most grades of gum unchanged. Finest selected white ribbon, £90; No. 1, white, £86; No. 2, white, £70; No. 3, white, £55; pale leaf, £32; amber leaf, £22; red leaf, from £12 12s.; woody and hoggy, from £5 per cwt., ex store.

TAMARINDS.—Market quiet, with little business passing. West Indian, spot, approximately 38s. per cwt., ex store.

TURMERIC.—Spot, Madras and Rajapore finger, offered at 43s. per cwt.

VALERIAN ROOT.—No quotations are available, as stocks of imported material are exhausted.

WAXES.—Quiet. Bees'.—Quoted dearer; spot, from 175s.; in bond 160s.; shipment, Dar-es-Salaam, 160s. per cwt., c.i.f.; Japanese, first three brands, spot, duty paid, 125s.; in bond, 115s.; shipment, 110s., c.i.f. CARNAUBA.—Fatty grey, quoted dearer at 375s.; chalky grey, spot, 365s.; Primeira, spot, 480s.

Essential and Expressed Oils, etc.

A MODERATE business, mostly for limited quantities on spot, has been transacted. Quoted values are fairly steady.

ALMOND.—Small spot business, market steady. Spot, about 3s. 8d. to 3s. 11d. per lb., in cwt. lots; smaller quantities, up to about 4s. 3d. per lb., ex store. Genuine French bitter oil is quoted on spot at about 15s. per lb., nominal, ex store.

ANISE (STAR).—Reported firmer on spot. Tins in cases, about 5s. 3d.; drums, about 5s. per lb., ex store. No shipment offers.

AVOCADO PEAR.—Continues steady on spot, with a few orders being placed. Spot, about 55s. to 57s. per gall., delivered; smaller quantities at higher prices.

BAY.—Firm. Spot, quoted at about 6s. to 6s. 6d. per lb., ex store, according to quality.

BERGAMOT.—Spot value is nominal, and prices would have to be negotiated. About 60s. per lb. has been mentioned as a basis for negotiation.

BOIS DE ROSE.—Quoted unchanged, business of small account. Spot, about 11s. to 11s. 6d. per lb.; shipment, about 9s. 3d. per lb., c.i.f., in drums.

CASSIA.—Occasional small spot inquiry, market firm. Spot, about 7s. per lb. No shipment offers from origin.

CITRONELLA.—Dull and unchanged. Ceylon, spot, 2s. 4d. to 2s. 6d. per lb., in drums; small quantities, up to 3s. per lb.; shipment, firmer at about 1s. 9d. per lb. Java, spot, from 2s. 6d. to 3s. per lb.; shipment, about 1s. 9d. per lb., c.i.f.

CLOVE.—Rather more spot business reported. Madagascar, about 5s. 9d. upwards per lb., in drums, if available. English, unchanged at from 6s. 9d. to 7s. 3d. per lb., according to quantity.

EUCALYPTUS.—The demand is quiet and quotations are unchanged. 70 to 75 per cent. oil, valued on spot at about 4s. to 4s. 6d. per lb., according to holder; shipment, nominal at about 3s. per lb., c.i.f.

GERANIUM.—Firm, with spot quotations for both Bourbon and Algerian at about 40s. to 45s. per lb. for any good quality oil available. There are no shipment offers.

GRAPEFRUIT.—The value of genuine Californian is approximately 12s. 6d. per lb. Genuine Florida would be worth about 11s. 6d. per lb.

LEMON.—Sicilian is not quoted, but about 30s. per lb. has been mentioned as a basis for negotiation. Californian distilled is quoted at about 10s. per lb., nominal. It might be possible to obtain cold-pressed on the basis of 3 dollars 25 cents per lb., cost and freight. British makers are offering artificial substitutes at attractive prices.

LEMONGRASS.—Spot oil is quoted dearer at from 4s. to 4s. 6d. per lb.; shipment, firmer at approximately 3s. 6d. per lb., c.i.f.

LIME.—West Indian is unchanged on spot at about 30s. per lb., with other qualities at lower prices.

LINSEED.—The controlled price for large bulk quantities of crude, naked ex works, is at the recent reduction of £41 10s. per ton. Distributors' prices for ordinary quantities of crude or boiled, packed and carriage paid, would be at higher figures.

NEROLI.—Approximately 80s. per oz. would be the present value of the pure French oil.

OLIVE.—The Ministry of Food controlled price paid by importers for large bulk quantities in 50-gall. drums is unchanged. Distributors' prices for a few gallons, packed in gallon tins, carriage paid, now range from 12s. 6d. to 13s. 6d. per gall., according to quantity.

ORANGE.—French Guiana oil has been in fair demand on spot, and business is reported done at about 6s. 6d. per lb. The spot value of Rhodesian is now at 8s. 6d. per lb., ex wharf London. Californian is quoted in sterling at 4s. 10d. per lb., in small drums, ex store, duty paid, limited supplies only being available. Shipment can be effected by transit overland to New York at an extra charge of five cents per lb.

OTTO OF ROSE.—Business has been quiet. Spot, Bulgarian, is quoted at between 60s. and 70s. per oz.

PALMAROSA.—In quiet demand, with spot quoted at in the region of 12s. 6d. per lb., ex store; shipment, new-crop, about 10s. 6d. per lb., c.i.f.

PEPPERMINT.—There has been a fair demand for both Japanese and Chinese. Japanese, in small lots, quoted at about 12s. 6d. per lb. Chinese, in limited supply, offered at about 8s. per lb.; some shipment offers are reported at about 6s. 4½d. to 6s. 6d. per lb., c.i.f. American natural oil, steady at 14s. 3d. in drums, and 14s. 7d. in tins in cases, c.i.f. Spot, steady at about 16s. per lb., ex store.

PETITGRAIN.—Firm; business moderate. Spot, about 11s. per lb., nominal. No shipment offers.

SPIKE.—In quiet demand, with spot oil valued at in the region of 11s. 6d. to 12s. 6d. per lb.

VETIVERT.—Occasional inquiry, with values steady. Spot, Bourbon, about 45s. per lb.; Java, about 40s. per lb., ex store.

WORMSEED.—Business has been quiet. Spot, about 24s. 6d. per lb.; shipment, about 23s. per lb., c.i.f.

POINTS FROM LETTERS

Window Protection

A chemist's shop is probably the most difficult of all shopkeepers' premises to guard against the risk of splinters, as in addition to the plate glass windows there are the inside showcases and the rows of bottles and shop rounds, and many pharmacies have wall fixtures with mirror backs. It is impossible to protect all these things against breakage in the manner described if the daily work of the pharmacy is to be carried on without undue inconvenience, and the only thing one can do is to improvise such means as may be practicable.—*Tego* (30/9).

Purchase Tax

It has been suggested that insurance scripts should be marked with drugs on which the tax has been paid, so that the Pricing Bureau may be made aware of the fact, but in many instances the quantities of drugs used to compound a prescription are only a drachm or a few grains or minims, on which it is impossible to reckon the rate of tax to be charged, though on several thousand prescriptions the figure might be appreciable. On Formulary preparations, too, the prices are ready worked out, but, as they contain several ingredients, some may be tax-paid and some tax-free.—*Panel Chemist* (26/10).

Salaries of Qualified Assistants

Pharmacists are well aware that the salaries of qualified chemists' assistants are far too low, compared with those of other and less-skilled workers. This low scale of wages arises not from the unwillingness of proprietors to pay a higher rate, but from the fact that the whole remuneration from a chemist's business is too small to permit more. Until the State recognises that the granting of a statutory qualification should also carry with it some form of protection, such as that enjoyed by medicine, dental surgery and the law, pharmacy will not be found adequate to provide a remuneration in keeping with its skilled professional duties.—*Once a Manager* (28/10).

MISCELLANEOUS INQUIRIES

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

Rubber Hot Water Bottles and Purchase Tax.—*M. B.* (30/10).—For purchase tax purposes rubber hot water bottles are included in Class 9 of taxable goods (hardware, turnery, etc.) and are chargeable at the rate of 33½ per cent.

Inexpensive Nail Varnish.—*A. G. H.* (15/10).—The following is a formula for this type of preparation:—

Celluloid	½ oz.
Amyl acetate	2 oz.
Acetone	6 oz.
Phloxin	1 gm.

Dissolve the celluloid, which may be cleaned moving-picture film, in the mixture of amyl acetate and acetone. If necessary warm slightly to obtain a syrupy liquid. Keep in well-stoppered bottle.

Infants' Carminative.—*F. M.* (15/10).—The following is the formula you refer to:—

Potassium bromide	8 oz.
Refined sugar	9 lb.
Sodium bicarbonate	8 oz.
Alcohol 90 per cent.	4½ fl. oz.
Concentrated anise water (1/40)	6 fl. oz.
Concentrated dill water (1/40)	9 fl. oz.
Distilled water	1½ gall.

Dose: ½ to 1 fluid drachm.

Liquid for Cleansing Pads.—*W. S.* (28/10).—One type of liquid for applying on cleansing pads consists of spirit and water, with sufficient glycerin or glycerin substitute to retard the evaporation of the spirit. The addition of a wetting agent assists the penetration of the liquid into the pad. The solution can be made on the following lines. Use about 10 per cent. of spirit, 10 per cent. of sorbitol or diethylene glycol ethyl ether, 1 per cent. of a suitable wetting agent and the remainder water. Another type of cleansing liquid can be made from the following formula:—

Stearic acid	1·0
Triethanolamine	0·4
Mineral oil	5·0
Spirit	10·0
Glycerin	5·0
Water	78·6

Saccharin Tablets and Purchase Tax.—*B. L. M.* (27/10).—According to a ruling given by the Commissioners of Customs and Excise, "saccharin put up in tablet form for use merely as a sweetening agent would not be subject to purchase tax." Regarding the liability to tax of other substances under Class 19 (1) (a) of C. & E. Notice 78 when put up in tablet form, the Commissioners would require full particulars of the substance, the excipient used, and the purpose for which the final product (e.g. tablet) is put up, to be stated.

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"NERVE CALMER" AIR RAID TABLETS

Triple-Bromide ($7\frac{1}{2}$ gr.)
Tablets

***Safe and
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ENERGISING VITAMIN T O N I C

***Creates new energy
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Glycerophosphates with
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p-Phenetyl Carbamide

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CRESYLIC ACIDS

XYLENOL MIXTURES

All prepared and standardised under direct
personal control backed by 40 years' experience

N. H. GRAESSER

The Chemical Works, SANDYCROFT, Nr. Chester
Grams: Graesser, Chester Phone: Hawarden 3104-5

SALICYLATES

All our products are made under strict
laboratory control and under the direct
supervision of technical experts. We are
specially equipped to produce salicylates
of the finest quality.

ASPIRIN B.P.
SODIUM SALICYLATE B.P.
SALICYLIC ACID B.P.
SALICYLIC ACID TECH.
ORTHO-CRESOTINIC ACID
SODIUM PHENATE, ETC.

WE SOLICIT YOUR ORDERS AND
ENQUIRIES FOR BOTH B.P. AND
COMMERCIAL QUALITIES.

In addition to maintaining a high standard
of quality we have a reputation for attentive
service and prompt delivery.

GRAESSER

The Chemical Works
CHESTER

Sandycroft
Phone & Grams: HAWARDEN 2125

SALICYLATES, LTD

EXTRACT

of

Specac. Liq.

B.P.

and

B.P. 1914

LET US QUOTE YOU
FOR YOUR SEASON'S
REQUIREMENTS . . .

WHIFFEN

& SONS LIMITED

TELEPHONE · FULHAM 0037
TELEGRAMS · WHIFFEN, LONDON

FULHAM · LONDON · S.W.6

Incorporating GEORGE ATKINSON & COMPANY

• ESTABLISHED 1654

NASAL CREAMS

Duncan's Nasal Creams are put out in Elastic Gelatine Capsules suitable for applying a medicament to the higher nasal passages. The following different kinds of creams are offered:

ALKALINE

ANTISEPTIC

ASTRINGENT



IODISED

SEDATIVE

STIMULANT

Sample and Prices on application

DUNCAN, FLOCKHART & CO.

EDINBURGH:
104 Holyrood Road, 8

AND

LONDON:
155 Farringdon Road, E.C.1

BUCKLEY BOWKER TABLET Co. L^{td}.

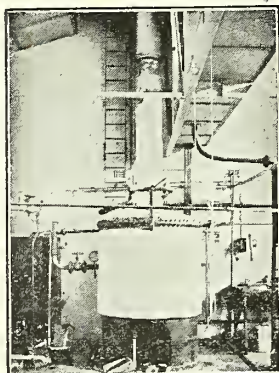
PARKFIELD STREET, LONDON, N.1

Send us your enquiries for all kinds of

COMPRESSED TABLETS (BULK OR PACKED)

PRIVATE FORMULAS COMPOUNDED BY EXPERTS STRICTEST SECRECY OBSERVED
(FRUIT PRESERVING TABLETS)

Speciality—CONTRACEPTIVES: Tablets and Jellies



BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils in the world—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA.

80/85% B.P.
Oil Euc. Dives 40/45%
Oil Euc. Citriodora

70/75% B.P.
Piperitone 90/95%
Oil Euc. Phellandra

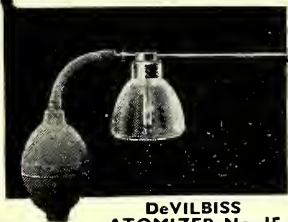
. . . Phellandrene . . .

UNIFORMITY OF QUALITY • CONSISTENCY OF ODOUR

Agents for U.K.: **WILSON & MANSFIELD LTD.**
15 Philpot Lane, London, E.C.3
(WHOLESALE ONLY)

'Phone : MANSION HOUSE 9264-5-6
'Grams : WYFIELD, LONDON

PREVENTION IS BETTER THAN CURE



**DeVILBISS
ATOMIZER No. 15**

This well-known nose and throat Atomizer sprays oil or aqueous solutions with equal ease. Adjustable tip permits spraying in any direction.



ATLAS ATOMIZER No. 20

A compact and dependable nasal Atomizer producing a medium spray from either oil or water solutions.

Every home needs one or more DeVilbiss Atomizers. DeVilbiss Atomizers have been used and prescribed by the medical profession for more than 45 years, and to-day the DeVilbiss range includes improved Atomizers of every required type. DeVilbiss Atomizers are reasonably priced, fully guaranteed and carry handsome profits. Conspicuously displayed, they stimulate the sale of medical and antiseptic solutions—and sell themselves.

Price list on application

DeVilbiss ATOMIZERS

THE AEROGRAPH CO., LTD., 43 HOLBORN VIADUCT, LONDON, E.C.1

Telephones: Holborn 1257 & 1258



**DeVILBISS
NEBULIZER No. 45**

For oils only. Produces a large volume of extra dry vapour for deep inhalation.



ATLAS ATOMIZER No. 25

A nose and throat Atomizer of high quality for oil or water solutions. Gives a fine, continuous spray.

CVS-93



Show Matter and Literature Supplied

ROZALEX LTD.

Yorkshire House, Cross Street, Manchester, 2

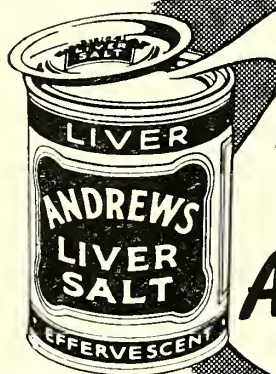
INCREASE YOUR ROZALEX

SALES

By showing this
Attractive Counter
Display

KEEPS HANDS CLEAN
KEEPS HANDS HEALTHY

Display Cartons of
1 dozen 6d. Tubes
Display Cartons of
1 dozen 1/- Tubes
Household size 2/6
Discount 33 1/3 %



*The demand
is for
ANDREWS*

A  LINE AT PRE-WAR PRICES

**The NEW "MECCA" PASTILLE is
now on offer for OCTOBER delivery**

2 oz. tins in 1/2 dozen display outers

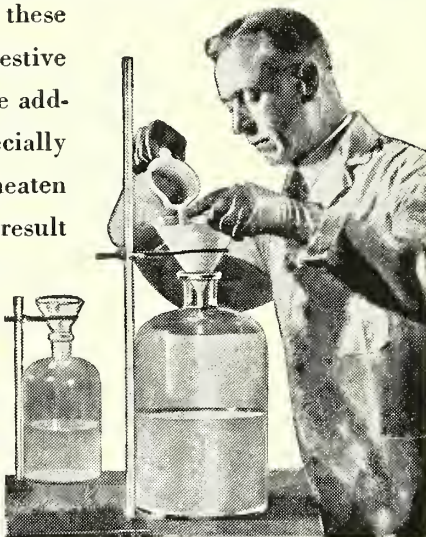
8s. DOZEN TO SELL at 1s. PER TIN

ROBERT GIBSON & SONS, LTD.

Manchester and London

HE BOTTLES DIGESTION!

He's a scientific wizard. His job is to extract, purify and bottle the digestive enzymes, trypsin and amylase from mammalian pancreas — trypsin for the modification of milk protein, and amylase for starch conversion. In due course these bottled digestive enzymes are added to a specially prepared wheaten base. The result is a farinaceous food which has the unique property of partial self-digestion.



It is the inclusion of these enzymes of natural digestion in Benger's Food which distinguishes it from all other foods. Benger's Food possesses the all-important advantage that the extent of self-digestion can be adjusted while being made to suit individual conditions.



BENGER'S FOOD, LTD.
Holmes Chapel, Cheshire

TELL THEM THIS ABOUT BENGERS FOOD. Tell your customers that Benger's Food contains pancreatic digestive enzymes, and that when the hot milk is poured on to the cold mixture — according to directions for making — the resulting temperature releases these enzymes to do the work of partially digesting both Food and milk. Tell them also that Benger's only takes as long to make as half a pint of milk takes to boil.

F.44

*The Wise Chemist
always recommends
the best remedy.*

★A LONDON CHEMIST:
"I am delighted to recommend Dr. Singha Tablets to my Asthma Suffering customers, as I am convinced there is no remedy to equal it."

IT WILL PAY YOU TO RECOMMEND AND SELL
DR. SINGHA ASTHMA TABLETS

The ORIGINAL
and STILL the BEST REMEDY for
ASTHMA, BRONCHIAL ASTHMA
and BREATHING DIFFICULTIES

Prices: 1/6, 3/6, 5/6, 12/6, 20/6
P.A.T.A. Terms from all Wholesale Houses.

DR SINGHA ASTHMA TABLETS

The DR. SINGHA CO. LTD., CAERNARVON, G.B.

Display

P. A. T. A. Terms
From all Wholesale Houses

SAMONA

THE WONDERFUL MEDICAL RESTORATIVE
which brings immediate benefit in all cases of
**NERVE STRAIN
DEPRESSION
TIRED and LISTLESS APPEARANCE
MENTAL AND PHYSICAL
EXHAUSTION**

Prices 3s. and 5s. (more than double quantity)

SAMONA, LTD., 16 CHARTERHOUSE ST., LONDON, E.C.1

★ PRODUCT OF THE OXO LABORATORIES ★

"LIVEROID"

BRAND

*Preparation of Liver***for ANÆMIA**

EQUIVALENT OF RAW LIVER — BETTER THAN LIVER EXTRACTS

Raw Liver contains the active principles applicable respectively to the treatment of

- (a) *Pernicious Anaemia*;
 (b) *Secondary and Haemorrhagic Anaemias*;
 (c) *Nutritional Macrocytic Anaemias*.

Many forms of Liver Extract, including those of the National Pharmacopoeias, contain only the Pernicious Anaemia principle and are unsatisfactory for the treatment of Secondary and Haemorrhagic Anaemias.

"Liveroid," the natural uncoagulated juice of raw liver, contains all the liver hormones combined with medicinal iron. It is therefore eminently suitable for the treatment of—

PERNICIOUS ANAEMIA

SECONDARY ANAEMIAS HAEMORRHAGIC ANAEMIAS
NUTRITIONAL MACROCYTIC ANAEMIAS

*SUPPLIED IN BOTTLES, 3/11 and 6/6***OXO LIMITED, Thames House, London, E.C.4**

★ PRODUCT OF THE OXO LABORATORIES ★

"OBTAINABLE ONLY THROUGH CHEMISTS"

**BE SURE TO MEET THE
 DEMAND CREATED BY OUR
 ADVERTISING CAMPAIGN**

for

- **ANGICID** Mouthwash Tablets
25 1/7 100 4/4
- **CASCOLIX** Aromatic Cascara
2 ozs. 2/3 4 ozs. 3/11
- **HALISTERIN** Capsules of Vitamins A & D
50 3/1 100 5/7
- **KALMOPYRIN** Calcium Aspirin gr. 5
25 1/5
- **MAGNOCARBON** Magnesium and
Charcoal 50 3/4
- **PARIVITAN** Vitamin and Mineral Tonic
4 ozs. 1/9 16 ozs. 4/3

These prices include Purchase Tax

→ ORDER FROM YOUR WHOLESALER

Made in England by

GEDEON RICHTER (Gt. Britain) LTD.
RICHTER HOUSE, LONDON, N.W.5

Telephones: GUL. 3478 (4 lines)

Cephos REGD.
See-foss
Pronounced THE PHYSICIANS' REMEDY

PRICES

from OCT. 21ST
1940

SINGLE DOSES

of Cephos Tablets or Powders will be 2½d. instead of 2d. At this price the sale of single doses shows

***Increased Profit for
 Retailers***

CEPHOS PACKS

The retail prices of Cephos packs of 8 powders or 16 tablets will be 1/5 and of 21 powders or 42 tablets 3/5

***Percentage of Profit
 to Wholesaler & Retailer
 remains unchanged***

TRADE DISCOUNTS
***for Wholesaler & Retailer
 remain unchanged***

ADVERTISING
to be increased

Proprietors

CEPHOS LIMITED, BLACKBURN
LANCS.

New 'ASPRO' Prices from Date of Purchase Tax

3½^p 7^p 1's 2'10
5 TABLETS 10 TABLETS 27 TABLETS 60 TABLETS
INCLUDING PURCHASE TAX

The interests of our distributors are fully conserved in the new 'ASPRO' prices necessitated by the Purchase Tax. Wholesale and retail margins are fully maintained in the various adjustments that have had to be made. Details are affixed by label to all 'ASPRO' stock boxes leaving our premises from the date the tax comes into operation. Wholesalers have been notified and supplied with labels for stocks they have on hand. Your wholesaler's traveller will be in a position to give you full particulars.

WE PAY PURCHASE TAX ON BONUS PACKETS

**Striking Show
Window
Material
Still
Available**

**BUT
PLEASE
MAKE
THE MOST OF
ANY**

YOU HAVE!

This important adjustment in favour of chemists increases the cash value of the bonus by one sixth. We willingly make this concession in appreciation of the widespread collaboration extended us by chemists who are making such good use of 'ASPRO' display material

BONUS ON UNSTAMPED 'ASPRO'

5's 6 dozen order—
 Bonus ½ dozen
 12 dozen order—
 Bonus 1 dozen
10's 6 dozen order—
 Bonus ½ dozen
 12 dozen order—
 Bonus 1 dozen

27's 3 dozen order—
 Bonus ½ dozen
 6 dozen order—
 Bonus 1 dozen
 12 dozen order—
 Bonus 2 dozen
 No Bonus on 60's.

The only condition attached to the bonus is that an undertaking be given to display 'ASPRO' advertising matter in the window for a period of at least 14 days.

We have reasonable stocks of excellent window shows, printed before the paper shortage became acute, but it may be quite impossible to replace them when our present supplies are used up. We will willingly send you a set on request but would ask you to make the greatest possible use of 'ASPRO' display material you already hold.

Remember, it pays to show the lines that people are looking for. They bring customers into your shop. 'ASPRO' is pre-eminent among them thanks to an advertising policy that has proved well suited to present conditions. Furthermore, the display qualifies you for the above 'ASPRO' bonus.

'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.



Made in England by ASPRO LTD., SLOUGH, BUCKS. Telephone: Slough 22381

No proprietary right is claimed in the method of manufacture or the formula



The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

NOV. 2
1940

IMPORTANT TO SUPPLEMENT ADVERTISERS

Instructions for supplement advertising are now accepted in London and at Bath. London press times have been advanced to first post WEDNESDAY morning of week of issue but instructions will still be accepted up to first post THURSDAY morning if sent to Bath.

THIS IS THE TARIFF

AGENCIES, GOODS FOR SALE, PARTNERSHIPS, PATENTS, PREMISES TO LET, FOR SALE or WANTED

7/6 for 36 words or less, 2d. for every additional word.

SITUATIONS WANTED { 2/6 for 18 words or less, 1d. for every additional word.

LEGAL NOTICES, SALE BY AUCTION, TENDERS—AND ALL SPECIALLY SPACED ANNOUNCEMENTS

1/9 per nonpareil line. (12 lines = 1 inch, single column.)

BUSINESSES for DISPOSAL, BUSINESSES WANTED, SITUATIONS OPEN

7/6 for 40 words or less, 2d. for every additional word.

MISCELLANEOUS SECTION

(for Wholesalers, etc.), for odd and second-hand lots.

12/6 for 60 words or less, 1/- for every additional 10 words or less.

BOX OFFICE NUMBER 1/- EXTRA

EXCHANGE COLUMN { 2d. per word (for Retailers, etc.) minimum 3/-

Advertisements received after these times will not be inserted until the following week. All advertisements should be prepaid and to avoid disappointment send your instructions as early in the week as possible to

THE CHEMIST AND DRUGGIST, THE PITMAN PRESS, BATH or to London Office at 28 Essex Street, Strand, London, W.C.2.

MISCELLANEOUS

LONDON Manufacturing Chemists, recently moved to West Midlands, can offer 1,000 square feet storage space in comparatively safe area. Could also undertake manufacture and dispatch of bulk orders. 371/585, Office of this Paper.

PERFUMERY QUOTA—WANTED

Manufacturers can use available portion quota current period to end November (also interested in quota following period from December 1) for distribution Perfumery. Replies treated strictly confidential. Write to 370/567, Office of this Paper.

ARE YOU UNEMPLOYED AS A DIRECT RESULT OF THE WAR? IF SO, READ THIS

In order to assist employees who have lost their employment, either through enemy action or through businesses being closed down in defence areas, a scheme of free advertisements in the "Situations Wanted" column of this Supplement will be available until further notice.

Any such employee of a retail pharmacist whether qualified or not, or any employee of works producing or distributing products in connexion with the drug and associated industries is invited to make full use of this facility without charge.

Advertisements should be accompanied by particulars of last employment and cause of its termination, and should be addressed to The Publisher, The Chemist and Druggist, The Pitman Press, Bath, to arrive not later than WEDNESDAY morning of week of issue.

OPTICAL TUITION

FOR THE

S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations

Particulars:—

C.A. SCURR, F.S.M.O., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

PURCHASE TAX GUIDE

This guide provides quick and easy alphabetical reference to all the types of goods of interest to the pharmaceutical, chemical and associated industries specified in the schedule of goods chargeable with purchase tax, issued by Customs (Notice No. 78).

Reprints of this guide (published in the October 19th, 1940, issue of "The Chemist & Druggist") are now available at the following prices:—

	6 copies	7d. post free
12	"	1s. 0d. " "
25	"	1s. 9d. " "
50	"	3s. 0d. " "
100	"	4s. 6d. " "

Orders, together with remittance, should be sent to The Publisher, "The Chemist & Druggist," The Pitman Press, Bath

AGENCIES

IRE.—Live Irish firm (having qualified Pharmacist as principal), with excellent connexion in Eire, require additional agencies or would act as representative. Any lines considered, Pharmaceutical, Fine Chemicals, Specialities, or Veterinary, for Retail or Wholesale distribution. CDB/186, Office of this Paper.

SOUTH AMERICA. Exporter, many years' experience sole agencies, various markets, leading brands chemicals, medicinal and toilet preparations, patent foodstuffs, surgical appliances. Proceeding personally to South America—twelve months' tour to establish own branches important centres. Manufacturers interested intensive development above markets for their products, please write 371/580, Office of this Paper.

ADVERTISER, with outstanding connexion amongst Chemists, Stores, Wholesalers throughout North of England, desires contact with Manufacturers of Toilets, Perfumery or allied lines with view to representation on commission basis. CDB/197, Office of this Paper.

AGENTS required, South-West England, also Scotland, to sell Chemists' sundries. Good connexion essential. 371/588 Office of this Paper.

FOR SALE

FOR SALE. Fine Pair of Scales by "Oertling." Cost when new £40. Will accept £10 or near offer. Brown, 22 Great Pulteney Street, Golden Square, W.1.

SITUATIONS OPEN

RETAIL (HOME)

LONDON. Assistant, Qualified or Unqualified, for middle-class Business with N.H.I. Dispensing. Give full particulars of experience, names of references, age, when disengaged and salary required. Apply (letter only), "Chemist," 389 Hackney Road, London, E.2.

CITY OF MANCHESTER

WITHINGTON HOSPITAL (1,150 BEDS) AND INSTITUTION (1,200 BEDS)

APPLICATIONS are invited for the post of Chief Pharmacist (non-resident) at the Withington Hospital and Institution, Nell Lane, West Didsbury, Manchester, 20. Candidates must possess a qualification granted by or recognised by the Pharmaceutical Society of Great Britain. Salary £505 to £535 per annum in accordance with the terms and conditions of the Manchester Corporation Grading Scheme. Full information and forms of application may be had from the Medical Officer of Health, Hospitals Administration Section, P.O. Box 399, Town Hall, Manchester, W., by whom all applications must be received not later than **NOVEMBER 9, 1940.**

Canvassing in any form is prohibited.
R. H. ADCOCK, Town Clerk.
TOWN HALL, MANCHESTER 2, October 19, 1940.

ANDERSON & VIRGO have vacancies for two Assistants. Good Dispenser well recommended, also Assistant Stock-keeper general all-round experience. Apply with full particulars to 12 The Foregate, Worcester.

ASSISTANT Pharmacist (man or woman) required by London County at Claybury Emergency Hospital, Woodford Bridge, Essex. Must possess Pharmaceutical Society's qualification. Salary £225 a year plus cost of living bonus. For application form, returnable by November 13, send stamped addressed foolscap envelope to Chief Officer (B/A), Mental Hospitals Department, West Park Hospital, Epsom, Surrey. Canvassing disqualifies.

BOOTS THE CHEMISTS have vacancies in London for well-trained male Unqualified Assistants, between the ages of 30 and 38. Applications to Boots the Chemists, Retail Staff Department, Nottingham.

CHEMIST, Qualified, required for business in N.E. London district. Apply with copy references stating age and salary required to CDB/199, Office of this Paper.

CHEMIST requires Unqualified Male or Female Assistant, for good-class Toilet and Dispensing business. Centre of Sheffield. Good wages paid to right applicant. CDB/202, Office of this Paper.

INVOICE Clerk required for London Wholesale Druggists. Write, stating experience, etc., 365/381, Office of this Paper.

PHARMACY.—Experienced Female Assemblers required for Pharmaceutical Depot, Woolwich district. Age 18 to 22 years. Widows and single persons only considered. Apply, in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Limited, 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note: Canvassing of members of the General Committee or Officials will disqualify.

RECEPTION area. Competent Assistant not liable for military service, male or female. Country business; not long hours. Full particulars to Sanders, 8 Fore Street, Chard, Somerset.

TABLET Maker and Sugar Coater wanted for London Wholesale Druggists. 365/382, Office of this Paper.

UNQUALIFIED Assistant (male or female) for brisk Counter trade. Experience in N.H.I. Dispensing essential. No Sunday or holiday duty. Yorks (West Riding). State wages and full particulars to CDB/196, Office of this Paper.

UNQUALIFIED Male Assistant required for Counter and Dispensing. Apply with usual particulars to Briggs Cash Chemists, Ltd., 75A High Street, Walthamstow.

UNQUALIFIED Assistant, either sex, required for high-class Business. Permanency. For Counter and Dispensary. Please send particulars, testimonials, salary required, date free, and snap in the first letter. Raymond Smith, 2 Cliff Road, Newquay.

WHOLESALE

LONDON Manufacturing Chemists require Chemist, Ph.C. and other qualifications an advantage. Excellent prospects for man with experience in Organic Synthetic Chemistry. Methodical worker, able to work and control staff. Full details, salary expected, to 371/590, Office of this Paper.

YORKSHIRE firm of Wholesale Manufacturing Chemists require experienced Clerks (Export and Home trade), Laboratory Assistants, Tablet Makers, Despatch Packers, and Girls for Sundry Packing. Applicants must state age, experience, and wages required. 371/584, Office of this Paper.

ASSISTANTS required for Wet and Dry Counters, over military age. State age, experience, and salary, to Mr. Austen, Newsholmes, Ltd., 27 High Street, Sheffield, 1.

EVANS SONS LESCHER & WEBB, LTD., have a vacancy for a Medical Representative in Lancashire and the Midlands. Applicants must be Qualified Pharmacists. Previous experience in travelling is not essential. Apply, 56 Hanover Street, Liverpool, 1.

EXPORT. Wanted immediately Assistant, qualified, age about 30, for responsible position in export sales department of wholesale pharmaceutical house. Scope for progress for man of business ability with initiative. Some knowledge of commercial and medical correspondence would be an advantage. Candidates with experience abroad may be of special interest. Reply by letter to 371/586, Office of this Paper.

OLD-ESTABLISHED Manufacturing Chemists (outside London) require Qualified Pharmaceutical Chemist to take control of Manufacturing Department. Applicants are particularly asked not to apply for this post unless they have had many years' experience in actual manufacture of Galenicals. Replies must state age, qualifications, previous experience and salary required. 371/587, Office of this Paper.

REPRESENTATIVES required for Yorkshire, West Country, Kent, Sussex, Hampshire and London areas by enterprising firm of Manufacturing Chemists selling well-known line. Apply 371/592, Office of this Paper.

THE LONDON RUBBER COMPANY, North Circular Road, London, E.4, require Traveller for South Coast, Surrey to Cornwall. Salary, expenses and commission. Car owner or driver. Over military age. A live connexion on ground is essential. Excellent opportunity for the right man.

TRAVELLER with large connexion in London area required to sell packed Medicinal Products. Write giving full particulars to Kingsland Chemical Supplies, 1 Abdale Road, Uxbridge Road, W.12.

WELL-KNOWN North of England Wholesale Chemists require representative experienced in Drugs, Sundries, Packed Goods and Patents, to take over established connection. State age, experience, and salary required. CDB/195, Office of this Paper.

BUSINESS

BLACKPOOL. district available joining up. Rent, of this Paper.

THROUGH age, present time now only £10-£16 fixtures. Good chance this Paper.

WELL established maceutical through owner being from accountants, J. Holborn, W.C.1.

SITUATION

EXPERIENCED military duties Counter, Dispensing Hert.

LADY Assistant duties. Experience Street, Leicester.

MANAGER (33), seeks situation salary; ideal offer 371/582, Office of this Paper.

PHARMACIST (2) experience, conscientious, and this Paper.

LOCUMS

LOCUM, period recommended. Road, Gloucester.

REGISTERED N tious, highly emergency, anywhere Road, Birkdale, Sou

COSMETIC Manuf trade, experience and B.P. Preparati Provinces; disengag "J. M.," 38 Dukes

EXECUTIVE, exp regularly Whole Counties. Will und of repute. Commissi Write, CDB/198, Offi

REPRESENTATIVE home countries. Owing to war circu tious service is offere Surrey.

WAR-TIME SITUATION

The advertiser and are from adv ment as a direct Prospective empl special considerat

Advertisers in the emj

ASSISTANT, Unqu all-round exp November 3. Thorm N.W.10.

ASSISTANT (25), 12 months' act 9 years' counter, d chiefly in City; now 18th November. Exo

POSAL

large residential
owing to owner
371/589, Office

on long lease, rent
business, taking
less than stock and
371/591, Office of

business in Phar-
maceutical Oils for sale
service. Particulars
of Son, 53-54 High

TED

married, exempt
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Road, Barnet,

noon or Sunday
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378/4, Office of

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Qualified. Well-
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d. Counter. Free
d, Kensal Green,

now exempt after
Navy (R.N.V.R.);
graphic experience,
ear Reading. Free

CAPABLE Manager seeks permanency, Retail or Wholesale (disengaged owing to enemy action). Scot, aged 31; married; of good appearance; well recommended. Thoroughly conversant all branches. "M.P.S.," 27 Cranmer Avenue, London, W.13.

CAPABLE Manager, good London experience, at present unemployed, seeks post where facilities for optical experience are available. CDB/201, Office of this Paper.

COMPETENT Pharmacist (31), seeks responsible position. Locum or Permanency. Smart appearance, well spoken, public school education. Thoroughly experienced all branches of the profession. Possessed of great initiative, able to control staff, good stock-keeper, keen buyer. Last 8 years managerial experience in City and West End of London. Knowledge of French and German. Highest references. Leeds district preferred. CDB/177, Office of this Paper.

EXPERIENCED Assistant, Unqualified, male, dispensing and counter, age 45 years. Kent area preferred. Pearson, 36 Briton Road, Faversham.

HOSPITAL Dispenser, lady; free afternoons, part-time duty, or as Secretary-Dispenser general practice. London. CDB/191, Office of this Paper.

LADY Dispenser-Bookkeeper (Hall) requires post with Doctor or Hospital; experienced; good references; free now. Hulme, 27 Marshall Avenue, Bognor Regis.

PHARMACIST (34), Scot; married. Disengaged owing to closing down in defence area, wishes post as Manager or Assistant in Scotland. Manager for past 8½ years. Free now. CDB/172, Office of this Paper.

PHARMACIST (24), married, Manager, desires post as Manager or Assistant. Surrey preferred. CDB/190, Office of this Paper.

PHARMACIST (34), married, seeks responsible post. Medical Representative, wholesale or retail; high-class retail experience all branches; Aldershot or Guildford preferred. CDB/180, Office of this Paper.

PHARMACIST (25), situation terminating through bomb damage; experienced in all types retail pharmacy, but mainly middle-class. Can manage single-handed. CDB/200, Office of this Paper.

PHARMACIST (32), married, Scot, manager for 8 years in London, wishes post as Manager or Assistant anywhere in Scotland. Experienced all branches retail. "Pharmacist," 3 North Street, Forres.

QUALIFIED, 38, good-class Dispensing and Retail experience, as Assistant or Manager, London or suburbs; 6 years last position. CDB/174, Office of this Paper.

TWO Guernsey evacuee ladies, 31 and 36 years, connected with Chemist's business, knowledge of French, some experience, desire employment in above or fancy goods trades. Mrs. E. K. Ozanne, Three Pigeons Hotel, Welsh Row, Nantwich.

UNQUALIFIED, age 47, married; own business 17 years (enemy action has decided otherwise). Seeks position of trust; any kind, anywhere, but London barred. CDB/184, Office of this Paper.

YOUNG Lady Secretary-Dispenser (Hall), requires post with Doctor or Retail Chemist. Several years' experience, can drive car. London or country. Excellent references. CDB/173, Office of this Paper.

WHOLESALE

PROPRIETOR (39), business ruined by enemy action, desires to enter wholesale trade with view to Representation in the West Country. 371/569, Office of this Paper.

REPRESENTATIVE, 6 years both Retail Manager and Representative for exclusive West End perfumery house, seeks re-employment. Keen and well spoken. Age 43. Good-class house only. Drugs, proprietaries, etc. Own car. CDB/179, Office of this Paper.

REPRESENTATIVE, disengaged owing to war, seeks progressive position; 6½ years with present firm. Good sales record. Age 43. CDB/189, Office of this Paper.

TRAVELLER, or any other suitable occupation at home or abroad. British subject, previously resident in Paris; age 42. Doctor of Pharmacy, fluent French, Arabic, Spanish, and Italian. Highly recommended. Enlisted voluntarily in the British Army in Paris and just discharged from hospital. 370/538, Office of this Paper.

WAREHOUSE Manager (33 years) seeks similar position. Ten years in last situation. Chemists' and Surgical Sundries; keen Buyer; Book-keeper; able to control staff. Experienced appliance fitter. Recent Army discharge after voluntary enlistment excellent references. London or Provinces. 371/583, Office of this Paper.

PHARMACEUTICAL SOCIETY

School of Pharmacy.—The ninety-ninth session of the School of Pharmacy of the Pharmaceutical Society began at University College, Cathays Park, Cardiff, on October 16. An inaugural address was given by the president of the Society (Mr. W. Deacon), and the Dean (Mr. H. Berry) gave his report.

Mr. DEACON, presiding, hoped most fervently that the rooth session would see the School accommodated once more in its own building and in circumstances which would give it full facilities for its work and for its ambitions. He then presented the books which accompanied the awards of the Bell and Leverhulme Scholarships to the Bell Scholar, Mr. C. L. Sargent, and the Leverhulme Scholar, Mr. A. Harrison.

Dean's Report.—Mr. BERRY, expressing satisfaction with results of the previous session, said the fostering of the B.Pharm. degree has been the chief policy of the School and the new college was designed around that policy. There had been a steadily increasing number of graduates passing through the School, and last session was the peak year, for some fifteen students graduated—a number nearly equal to all other external students. This, in normal circumstances, would have made a splendid start for the first session in the new building. It would have been a fine foundation for the establishment of either an M.Sc. course or an Honours course in pharmacy and another step forward in bringing pharmacy into line with other sciences.

Research had been maintained during the session, although circumstances naturally restricted output. Four papers were published. One of the chief anxieties of the Dean since September 1939 had been that the School should play its part in contributing to the national war effort by utilising the specialised pharmaceutical knowledge of the staff. Some progress had been made in this direction, for the pharmacy department was linked up with the newly established blood-transfusion service of South Wales and, as a first task, undertook the provision of intravenous saline fluids for that service.

In connexion with the larger problem of the equipment of hospitals to cope with war emergency cases, the Dean had been asked to act as the pharmaceutical adviser to the Welsh Board of Health for the area of South Wales. This would involve at least one visit to every hospital in the area. Dr. Linnell was taking part in an investigation under a Government scheme for a large-scale process for preparing thiamine hydrochloride (vitamin B₁) with a view to its early incorporation in all white flour.

Letter to the Ministry of Health.—The following letter has been sent by the Pharmaceutical Society to the Ministry of Health: "The provision of medical service in connexion with public air-raid shelters raises the question of the arrangements for the supply of medicines in this service. It would appear that in this connexion there will be opportunities for utilising the services of pharmacists, for example, in the daily or weekly overhaul of medicine cupboards and the replenishment of stocks, an arrangement that would be carried out by a system of local rotas, and in this direction or in any other way the Society would be happy to place its services at the disposal of the Ministry."

Ambulance Corps Appeal

The following are the contributions so far received from local associations and branches towards the British Volunteer Ambulance Corps:—

Aberdare and Merthyr, £3 3s.; Anglesey, N. Carnarvonshire and Colwyn Bay, £7 4s. 3d.; Bath, £6 3s.; Bedfordshire, £6 6s.; Birkenhead, £8 15s.; Birmingham, 5s.; Blackpool, £14 14s.; Bolton, £16 6s.; Bournemouth, £39 7s. 7d.; Bradford, £21 14s. 6d.; Breconshire and Radnorshire, £9 7s.; Bridgend, Maesteg, Porthcawl and Pyle, 5s.; Brighton and Hove, £24 16s.; Bury, £4 4s.; Buxton, £1. Cardiff, £50; Cheltenham, £3 3s.; Chester, £5 5s.; Chesterfield, £2 2s.; Coventry and Warwickshire, £36; Croydon, £6 7s. Dartford, £5 11s. 6d.; Derby, £1; Durham County, 5s. Eastbourne, £2 16s.; East Cumberland, £3 2s.; Enfield, £10 10s.; Exeter, £9. Gloucester, £10 18s. 2d.; Guildford, £6 6s. Harrow, £3 2s.; Hastings and St. Leonards, £6 3s. 7d.; Hull, £60. Ipswich and Suffolk, £16 8s. 3d. Leeds, £1 13s.; Leicestershire, 2s. 6d.; Liverpool, £25 10s. 6d.; Lowestoft and Yarmouth, £1 7s. 6d. Manchester, Salford, £51 1s. Northampton, £1 2s.; North Staffordshire, £11 6s. 3d.; Nottingham, £54 10s. 6d. Oldham, £1 2s.; Oxfordshire, £17 13s. 6d. Peterborough, £3 10s.; Plymouth, £7 7s. 6d.; Pontypridd and Rhondda Valley, £5 5s.; Preston, £2. Reading, £21 6s. Scarborough, £4 10s.; Shropshire and Montgomeryshire, £4 10s.; Somerset County, £46 0s. 6d.; Southampton, £16 11s. 6d.; South Lincolnshire, £5; Southport, £8 10s.; Stafford, £2 5s.; Sunderland, £7 12s. 6d.; Swindon, £2. Thames Valley, £21 4s.; Thanet, 10s.; Torquay, £7 8s.; Tunbridge Wells, £8. Warrington, £5; West Cumberland, £10 10s.; West Glamorgan, £1 10s.; West Kent, £7 12s.; West Middlesex, £13 5s.; Wolverhampton, £5 10s.; Wrexham, £3 6s. Metropolitan Branches: North, £13 19s.; North-East, £19 9s. 6d.; South-West, 2s. 6d.; South-East, £16 7s.; West, £12 1s. West Ham, £75 10s.; Wimbledon, £6 8s. 6d. Scottish Branches: Edinburgh, £47 15s. 3d.; Glasgow, £81 1s. 6d. Miscellaneous: Uganda, 5s.; proceeds of dance (per Miss Armsden), £2.

TREATMENT OF WOUND SHOCK

DETAILS of the method of treating shock in the wounded are given in a twenty-page memorandum issued recently by the Committee on Traumatic Shock and on Blood Transfusion of the Medical Research Council (M.R.C. War Memorandum No. 1, H.M. Stationery Office, price 4d.), of which the following is an extract.

Mechanism of Wound Shock.—Shock may occur with any injury, but particularly with those that are accompanied by hæmorrhage and widespread tissue damage, and the treatment of wound shock must supplement the arrest of hæmorrhage, prevention of infection and repair of damaged tissue. By primary shock is meant a condition of collapse that may follow soon after the receipt of injury and is not due to hæmorrhage. The condition resembles fainting and responds to placing in a recumbent position, warmth, relief of pain, use of stimulants. Secondary or wound shock, with which the memorandum deals, develops insidiously some hours after injury. It is characterised by weakness, pallor and raised pulse rate, and in advanced cases by lowered body temperature, sweating, low blood-pressure, rapid "thready" pulse, vomiting, and intense thirst. It closely resembles the effects of hæmorrhage in its clinical features, and is a condition of circulatory failure due to diminished blood volume with consequent fall in heart output and blood-flow through the tissues of the body. External hæmorrhage, and loss of blood and blood plasma into the tissues, account for the decrease in blood-volume in wound shock. Whereas hæmorrhage is a relatively simple disturbance, shock is known to be a state resulting from many factors in addition to blood loss: fatigue, dehydration, pain and exposure to cold and wet may in individual cases all contribute to its origin. If shock is to be successfully prevented or treated, these contributory factors all demand attention, and, in some instances, no further measures are required. In the majority of cases, however, active steps must be taken to restore blood volume. Experience has shown that a reduction of the blood volume by 25 per cent. produces only slight symptomatic disturbance in the patient, whereas a further reduction of 25 per cent. produces a condition so serious that recovery is rare.

Effect of Reduced Blood Volume.—Observers during the war of 1914-18, as well as experimental investigators since, have found that a constant feature of shock is reduction of blood volume. Treatment based on this hypothesis is eminently successful. Reduction in blood volume causes a general vasoconstriction which attempts to maintain the blood pressure at a normal level. The vasoconstriction may be completely effective for a volume loss of approximately two pints (1,136 c.c.) but when the loss is greater the blood pressure cannot be maintained and the systolic pressure may, in extreme cases, fall lower than 50 mm. of mercury. Thus, when reduction in blood volume is large and the cardiac output is poor, both the vasoconstriction and the lowered blood pressure cause diminution in the tissue circulation, and, if inadequate tissue circulation is too long continued, the oxygen lack causes irreparable damage. One manifestation of this permanent damage is an increase in capillary permeability so that generalised capillary leakage, including pulmonary oedema, occurs. Consequently, when blood is introduced into the circulation, the plasma cannot be retained. Then, the patient is unable to recover even if his blood volume is fully restored with blood itself. In theory, the condition of the circulation depends upon whether the reduction in blood volume is due to hæmorrhage or to plasma loss. Both causes operate in almost every case of war injury. (a) *Simple hæmorrhage.*—With simple acute hæmorrhage all elements of the blood are lost. Until the physiological compensatory mechanism begins to come into action, the blood count shows no significant change and gives no indication of the amount of blood lost. The compensatory mechanism is an absorption of tissue fluid which restores the blood volume. It is inefficient and slow if the tissues are depleted of fluid, dehydrated subjects (and wounded men are usually in this state) having but little tissue to yield up for the purpose. Most wounded men tolerate hæmorrhage badly, and the need to restore blood volume is correspondingly urgent. (b) *Plasma loss.*—Diminution in blood volume caused by plasma loss is more dangerous than the same reduction due to hæmorrhage. Loss of plasma results in a concentration of the cellular elements of the blood which increases the viscosity. The increased viscosity of the blood causes a reduction in tissue circulation over and above that produced by vasoconstriction and fall of blood pressure, and so still further embarrasses the circulation. Under these conditions the patient suffers from oxygen lack. (c) *Combined hæmorrhage and plasma loss.*—Theoretically, blood dilution or blood concentration should arise according to whether simple hæmorrhage or plasma loss is the more marked feature; dilution might, indeed, balance concentration, so that, apart from a determination of blood volume, there would be no apparent gross changes in its composition.

Recognition of Wound Shock.—The recognition of shock in its advanced states presents no difficulties. In addition to the symptoms mentioned above, the lips, ears and nails may be cyanosed and the tongue dry, and consciousness may be impaired, but it is important

to realise that many even moribund patients are mentally alert. Recognition of shock in the earlier stages is by no means easy. Difficulties arise because pallor and increased pulse rate, which are the constant manifestations of early shock, are not confined to this condition. Shock should be suspected in every case where injury has been extensive, where much blood has been lost and exposure very prolonged, and where the skin is pale and cold and the pulse very rapid.

Treatment.—It is generally accepted that the most important requirement for arresting the progressive deterioration in general condition is such a feature of shock is restoration of blood volume and thereby of tissue metabolism. It cannot be emphasised too often that success depends mainly upon the promptness with which this restoration can be made. During quiescent periods it should be possible to transfuse casualties in the Fighting Services with plasma at an advanced dressing station. During active military operations or enemy action the most that can be done in very advanced positions is to limit hæmorrhage and plasma loss efficiently, with either a firm bandage, tourniquet, and to contrive some comfortable form of splint in order to prevent the pain and local plasma loss caused by movement of a fractured limb during transport. When a limb is so mangled that there is obviously no chance of repair, a tourniquet should be applied close to the upper level of the wound in order to cut off the whole blood supply to the wounded area and so prevent not only loss of blood but also loss of plasma into the injured tissue. The wounded must be protected from cold. Stretcher-bearers should be familiar with the proper use of waterproof sheets and blankets; when the latter are not available protective clothing should be placed between the canvas of the stretcher and the patient, rather than on top of the patient. When the patient is awaiting evacuation the foot end of the stretcher should be raised. It is of great importance to administer water freely and repeatedly to all wounded except those who are unconscious or who have abdominal wounds. It is an advantage if the water contains half a teaspoonful of salt to the pint. Warm drinks such as sweetened tea should be used when possible.

The memorandum deals next with treatment at military C.C.Ss. and civilian casualty receiving hospitals and discusses, among other factors, the following substances used for restoring blood volume:—(a) *Whole blood.*—This is of proved value for shock, irrespective of whether the symptoms are due to loss of blood by hæmorrhage or to local plasma loss; (b) *Human plasma, human serum.*—These substances, because of their superior keeping qualities, are more convenient than whole blood for use under field conditions. In some cases, such as extensive burns where reduction in blood volume is due entirely to plasma loss, replacement by plasma or serum is theoretically correct. Moreover, even in hæmorrhage, the restoration of blood volume, serum proteins and adequate blood pressure may be of greater value than increasing the oxygen-carrying power of the blood; (c) *Isotonic saline or glucose.*—*Ringer-Locke solution, gum saline.*—If neither blood nor plasma or serum is available, any of the above solutions can be given, i.e. one pint of isotonic saline together with a pint of isotonic glucose may be administered in 15-30 minutes. Restoration of blood volume by the intravenous infusion of these solutions is of transient value only and is not devoid of risk. Gum saline, unless very carefully prepared, has been found to be dangerous and it will not be issued for use in the field.

Dried Human Serum.—In one of the appendices to the memorandum the reconstitution and administration of dried serum or plasma is described. (1) *Dried human serum.*—Dried serum is a very stable product and is specially valuable when long storage under difficult conditions is envisaged. The serum is separated from blood which has been allowed to clot. It is bacteriologically filtered, and dried from the frozen state. It differs from plasma in the absence of fibrinogen. It has the advantage that it can be given in concentrated form. The serum can be given to recipients of any group, and it should be kept cool and away from light. It is reconstituted by adding sterile distilled water, i.e. B.P. distilled water filtered and autoclaved immediately after distillation. For a twice normal concentration 100 c.c. distilled water is added. For a normal concentration 200 c.c. distilled water is added.

Dose.—Reconstituted serum can be used as an alternative to blood or liquid plasma. Twice-normal concentration is recommended in conditions such as burn shock, and normal concentration for cases where hæmorrhage has occurred and "shock" is present, with dehydration. Experience has shown that 400 c.c. (two bottles) of serum is a suitable dose, though more may be required according to the severity of the case. Dried serum, after it has been reconstituted, should be used without delay. It should not be stored away for future use. (2) *Dried human citrate plasma.*—The stability of this product is similar to that of dried serum. The citrate plasma is separated from blood which is mixed with a citrate diluent.

In other appendices to the Memorandum details are given of Arm blood-transfusion outfits and instructions, of the Medical Research Council outfit and of other methods of transfusion and intravenous infusion. Several diagrams are also included.

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